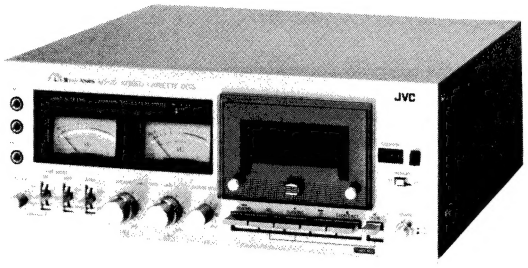
JVC

SERVICE MANUAL

MODEL

KD-75A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4156
May 1977

Contents

Specifications

Type : Stereo cassette deck
Track system : 4-track, 2-channel
Cassettes : C-30, C-60, C-90
Frequency response :
Chrome *1 : 20–18,000 Hz (Nominal)
30–16,000 Hz (Typical)
SF *2 : 20–17,000 Hz (Nominal)
30–15,000 Hz (Typical)
Surpasses DIN 45500
*1 ..... TDK-SA or Equivalent
*2 ..... MAXELL-UD or Equivalent
Signal-to-Noise ratio : 56 dB (from peak level, weighted)
The S/N is improved by 5 dB at 1 kHz and by 10 dB above 5 kHz with ANRS on.
62 dB with ANRS
(DIN 45500 weighted)
Effect of Super ANRS (normal tape)
Improvement of S/N : the same with ANRS
Improvement of frequency response : 0 VU recording; 6 dB at 10 kHz
+5 VU recording; 12 dB at 10 kHz
Improvement of distortion : 0 VU recording; 3% less at 10 kHz
Wow and Flutter : 0.06% (WRMS)
±0.2% (DIN 45500)
Crosstalk : 65 dB
Harmonic distortion : 1.2% (normal tape)
Bias : AC bias (95 kHz)
Erasure : AC erasure (95 kHz)
Heads : Recording/playback; Sen-Alloy head
Erasure; Double gap, Ferrite head
Motors : Electronic governer DC motor
: with frequency servo control
Tape speed 4.8 cm/sec. (1-7/8 ips)
Recording time : 2 x 30 minutes with C-60 cassette
Fast forward time : 85 sec. with C-60 cassette
Rewind time : 85 sec. with C-60 cassette
Playback equalizer time constant;
Normal/SF 3180 μs/120 μs
CrO_2 3180 μs/70 μs
Semiconductors : 8 ICs, 1 SCR,
29 transistors and 38 diodes
Input jacks : MIC jack x 2
Max. sensitivity; 0.2 mV
Matching impedance; 600Ω– 2 kΩ
Input jack x 2
Min. input level; 80 mV
Input impedance; 100 kΩ
Output jacks : Output jack x 2
Output level; 0–0.5 V
Output impedance: 2–7 kΩ
Matching load impedance; 50 kΩ or more
Headphone jack x 1
Output level; 0–0.3 mW
Matching impedance; 8Ω–1 kΩ
DIN socket : Min. input level; 0.12 mV/kΩ
Input impedance; 10 kΩ
Output level; 0–0.5 V
Output impedance; 5 kΩ
Matching load impedance; 50 kΩ or more
Power requirement : AC 240/220/120 V, 50 Hz (KD-75A/B/E)
AC 220 V, 50 Hz (KD-75E)
AC 220/120/100 V, 50/60 Hz (KD-75U)
Power consumption : 30 W
Dimensions : Width; 16-1/2" (420 mm)
Height; 6-3/8" (161 mm)
Depth; 13-1/4" (331 mm)
Weight : 17.2 lbs (7.8 kg)

Design and specifications are subject to change without notice.

Features

- ○ SEN-ALLOY HEAD
- ○ ANRS IC and Super ANRS IC (both patent pending) built-in
- ○ Level switchable multi-point peak level indicators (patent pending)
- ○ High frequency response compensator switch
- ○ Mixing facility
- ○ Vertical, open-view cassette type
- ○ Dual-ball cassette holder
- ○ Air-damped cassette door
- ○ Large VU meters with mirrors
- ○ Memory tape counter
- ○ Automatic timer recording and playback
- ○ Rack mount (BH-75R, optional) adaptable

Controls and Connections

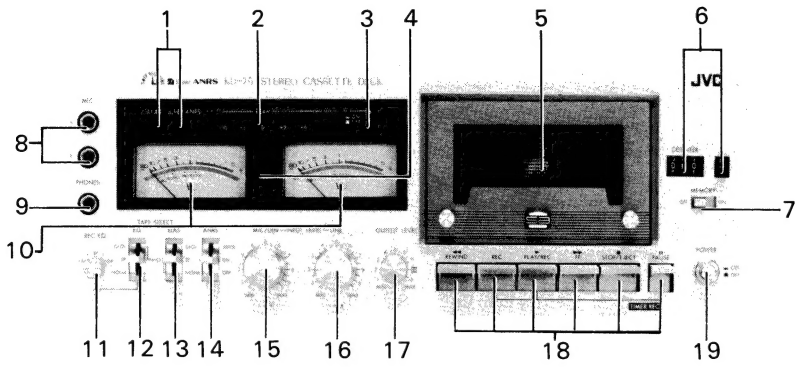


Fig. 1

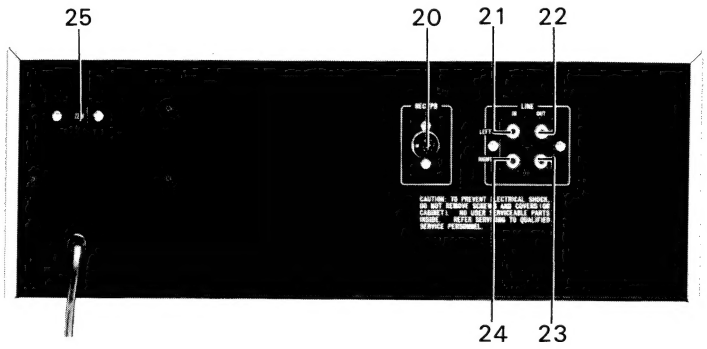
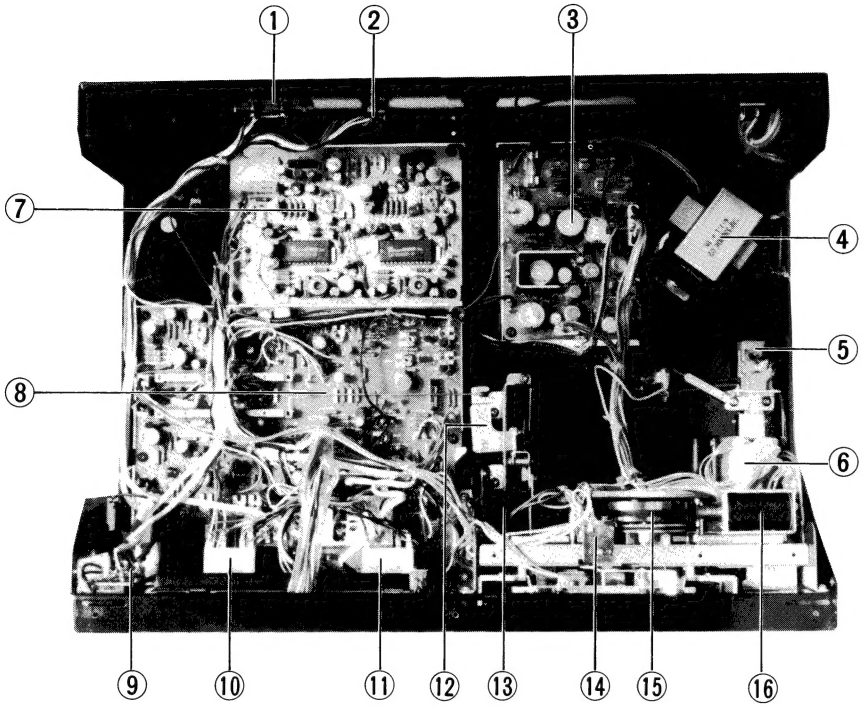


Fig. 2

1. ANRS indicator [ANRS]
   Super ANRS indicator [SUPER ANRS]
2. PEAK level indicator
3. Peak level switch
4. Recording indicator
5. Cassette door
6. Counter with reset button [COUNTER]
7. Memory switch [MEMORY]
8. Microphone jacks L = Left channel
   R = Right channel
9. Headphone jack [PHONES]
10. Left channel level meter [LEFT]
11. Recording equalizer switch [REC, EQ]
12. Equalizer switch [EQ]
13. Bias switch [BIAS]
14. ANRS switch [ANRS]
15. MIC REC level control knobs
    Left channel = Inner knob
    Right channel = Outer ring
16. LINE REC level control knobs
    Left channel = Inner knob
    Right channel = Outer Ring
17. Output level control knob [OUTPUT LEVEL]
18. Rewind button [◀◀REWIND]
    Recording button [REC]
    Playback button [▶PLAY/REC]
    Fast forward button [▶▶FF]
    Stop/Eject button [■STOP/EJECT]
    Pause button [▮▮PAUSE]
19. Power switch [POWER]
20. DIN socket [REC/PB]
21. Left channel LINE IN terminal
22. Left channel LINE OUT terminal
23. Right channel LINE OUT terminal
24. Right channel LINE IN terminal
25. Voltage select switch (KD-75A/B/U)

Main Parts Location

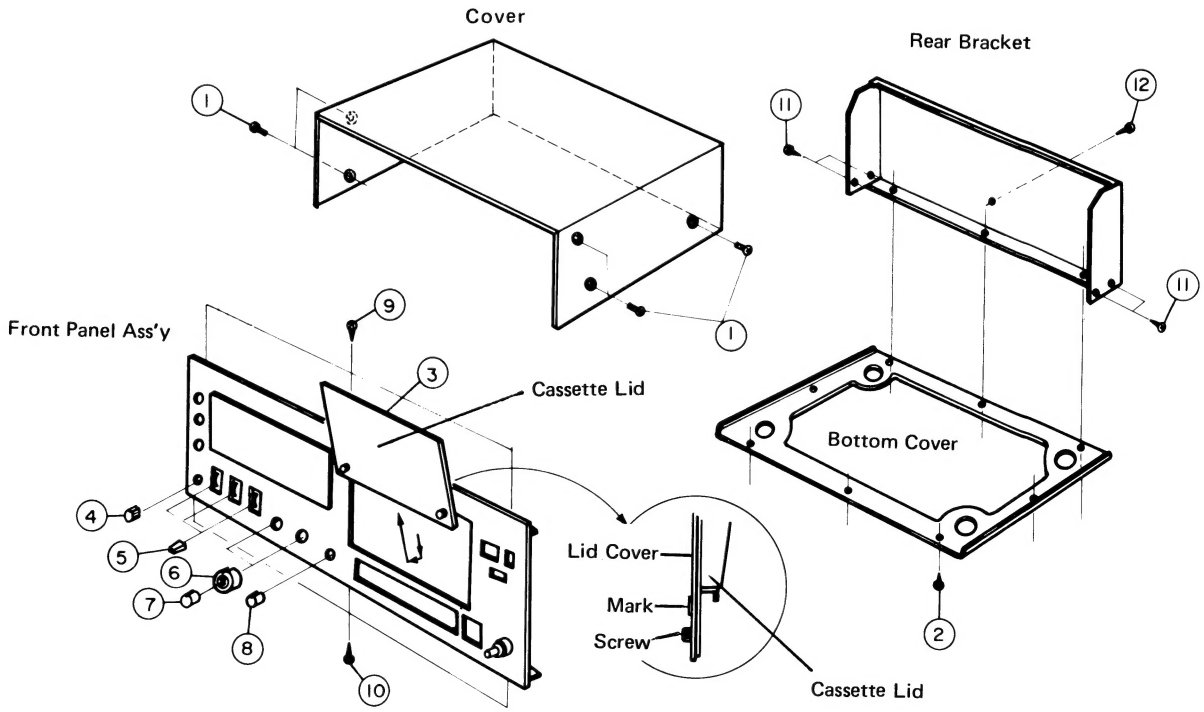


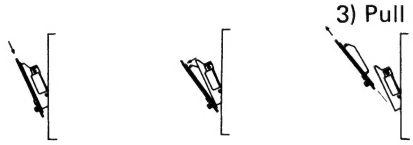
1. PIN jacks
2. DIN socket
3. Power supply printed circuit board
4. Power transformer
5. Power switch
6. Motor
7. Super ANRS printed circuit board
8. Main amp. printed circuit board
9. MIC & Phones jacks ass'y
10. Left channel level meter
11. Right channel level meter
12. REC bracket ass'y
13. Brake pipe
14. Switch bracket
15. Flywheel and capstan belt
16. DC solenoid

Main Parts Removing

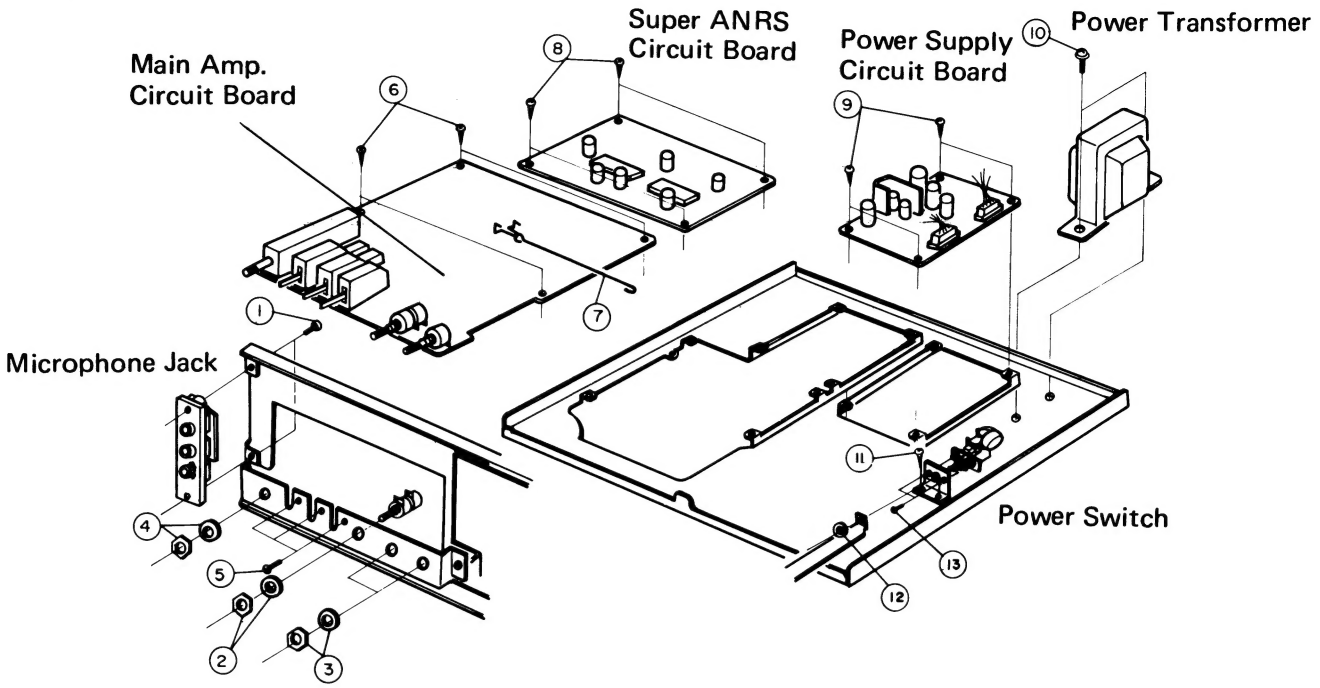
This cassette deck which features a compact design and high performance uses miniature-sized parts which are closely arranged. Use special care when servicing it.

Enclosure Assembly



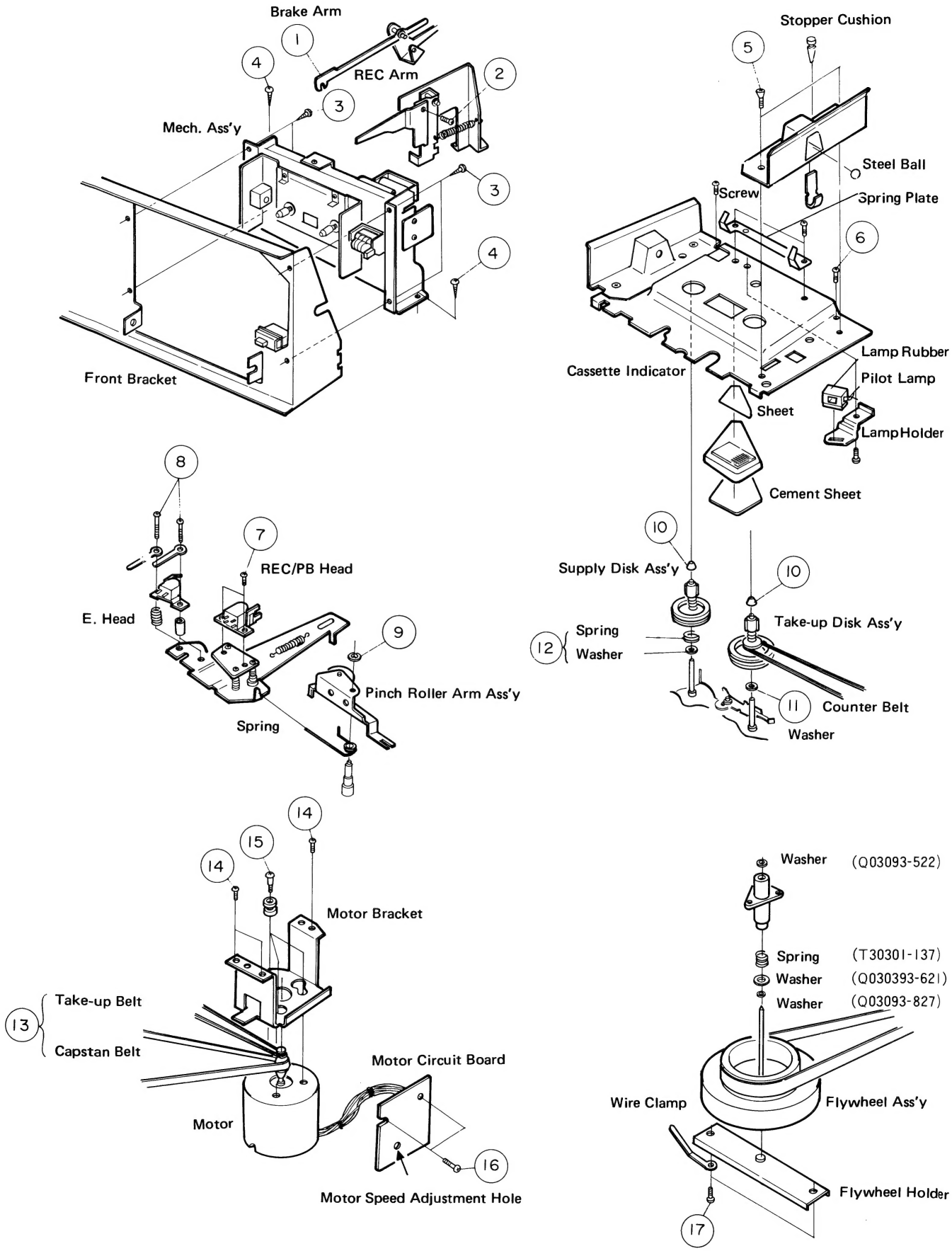
Parts Name	Procedure	Ref. No.	Remarks
Cover	1. Remove 6 screws fastening the cover. 2. Pull it off to above side.	①	Almost all parts of circuit board can be checked, when only the cover is removed.
Bottom cover	Remove 8 screws fastening the bottom cover.	②	Almost all pattern side of circuit board can be checked, when only the bottom cover is removed.
Cassette lid ass'y	1. Depress the EJECT button for opening the cassette lid. 2. Remove the cassette lid as shown below. 1) Push it downwards. 2) Remove its upper part. 3) Pull it up. 	③	When replacing the lid cover, remove 2 screws fastening the cassette lid.
Knobs	Pull them out to this side. 1. REC EQ 2. TAPE SELECT (EQ/BIAS) } ANRS 3. INPUT LEVEL { Right channel / Left channel 4. OUTPUT LEVEL	④ ⑤ ⑥ ⑦ ⑧	
Front panel ass'y	Remove 6 screws fastening the front panel ass'y Upper side ..... 3 pcs. Lower side ..... 3 pcs.	⑨ ⑩	
Rear bracket	Remove 4 screws fastening the rear bracket on right and left sides, and 1 screw fastening its center	⑪⑫	
Meter escutchen	1. Remove 1 screw fastening the meter escutcheon. 2. Remove 3 screws fastening the peak level circuit board. 3. Remove 1 screw fastening the REC indicator circuit board.		

Electrical Parts



Parts Name	Procedure	Ref. No.	Remarks
Microphone jack ass'y	Remove 2 screws fastening the microphone jack ass'y.	①	
MIC/DIN input level control (V. Resistor)	Remove 1 nut and 1 washer fastening the volume bracket for V. resistor shaft.	②	
Main amp. circuit board	1. Remove parts as follow. 1) Remove 2 nuts and 2 washers fastening V. resistors for output level control and line input level control. 2) Remove 1 nut and 1 washer fastening the switch shaft for REC EQ. 3) Remove 3 screws fastening the select switches and ANRS switch. 2. Remove 4 screws fastening the main amp. circuit board. 3. Remove the rod for recording.	③ ④ ⑤ ⑥ ⑦	
Super ANRS circuit board	Remove 4 screws fastening its circuit board.	⑧	
Power supply circuit board	Remove 4 screws fastening its circuit board.	⑨	
Power transformer	Remove 2 screws fastening the power transformer.	⑩	
Power switch	1. Remove 2 screws fastening the bracket for power switch. 2. Remove 1 washer fastening the switch bracket of switch shaft. 3. Pull out the power switch with its bracket backwards. 4. Remove 2 screws fastening the power switch.	⑪ ⑫ ⑬	

Mechanical Parts



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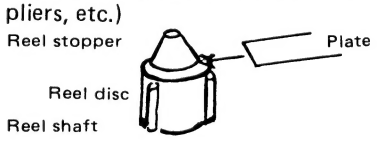
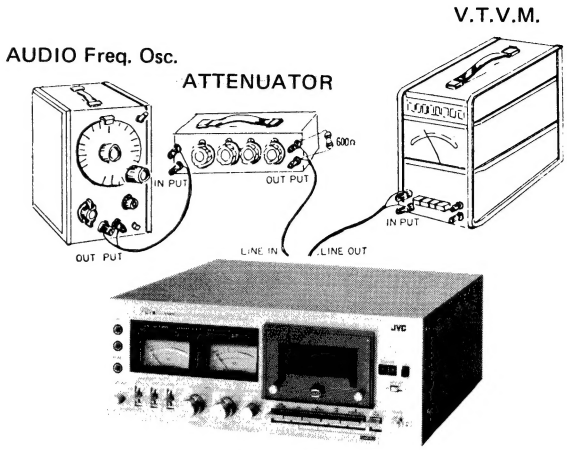
Parts Name	Procedure	Ref. No.	Remarks
Mech. ass'y	1. Depress the EJECT button for opening the cassette lid and remove the cassette lid. 2. Remove the brake arm from the cassette holder. Note: When removing or assembling the brake arm, hold the cassette lid opening. (If the cassette lid is held closed, it is impossible to join or disconnect the angle of brake arm.) 3. Remove 1 screw fastening the recording arm and remove the arm out of the mecha. ass'y. 4. Remove 4 screws fastening the front bracket. 5. Remove 1 screw fastening the amp. chassis.	① ② ③ ④	1. How to remove the cassette lid, see "cassette lid ass'y" in "Enclosure Assembly". 2. When removing the brake arm, don't make the "O" ring of brake shaft dirty. 3. Mech. ass'y can be removed with its holder brackets together.
Cassette holder	1. Remove 4 screws fastening the holder. 2. Remove 2 screws fastening the holder plate.	⑤ ⑥	1. The holder can be removed with the stopper cushion, steel ball and spring plate. 2. The holder plate can be removed with spring plate, its screws, cassette indicator, sheet, cement sheet, lamp rubber, pilot lamp, lamp holder and screw.
REC/PB head	Remove 2 screws fastening the REC/PB head. (Don't remove 3 screws for adjustment of its head.)	⑦	When the REC/PB head is replaced, adjust azimuth, height and inclination.
Erase head	Remove 2 screws fastening the E head.	⑧	When the E. head is replaced, adjust height.
Pinch roller arm ass'y	Remove "E"-ring holding the pinch roller arm ass'y.	⑨	When the pinch roller arm ass'y is removed, the spring can be removed at the same time.
Take-up disc ass'y	1. Remove the reel stopper that it is pressed to reel disc shaft. 2. Remove the counter belt, then pull the disc out of its shaft. (The washer is removed at the same time.)	⑩ ⑪	1. Remove the reel stopper using the plate as shown in the illustration. (Don't pick up the reel stopper by the pliers, etc.)  2. Be careful not to stain the belt.
Supply disc ass'y	1. Remove the reel stopper pressed to reel disc shaft. 2. Pull the disc out of the shaft. (The back tension spring and the washer are removed at the same time.)	⑩ ⑫	
Motor	1. Remove the take-up belt and the capstan belt. 2. Remove 3 screws fastening the motor bracket. 3. Remove 3 screws fastening the motor. 4. Remove 2 screws fastening the motor circuit board.	⑬ ⑭ ⑮ ⑯	1. When replacing the motor, replace its circuit board together. (For, the motor and the circuit board should be adjusted in combination.) 2. Be careful not to stain the capstan belt.
Flywheel	1. Remove 2 screws fastening the flywheel holder and remove the wire clamp. 2. Remove the capstan belt. 3. Pull out the flywheel.	⑰	When replacing the flywheel, don't forget setting the following. Washer (Q03093-827), Washer (Q03093-621), Spring (T30301-137), Washer (Q03093-522) on the capstan metal.

NOTE: 1. Don't make the capstan belt and the counter belt dirty, slippery and run-out.
2. Adjust height of the motor pulley so that the belt will run on the center of the rim of the flywheel when the belt is set to the flywheel and the pulley.

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment
   1) V.T.V.M. (measuring AC in millivolt)
   2) Audio frequency oscillator
      (range; 50–20 kHz and output 0 dB with impedance 600 Ω)
   3) Attenuator
   4) Reference tapes for REC/PB
      BASF QP-12 – normal tape
      Maxell UD – SF tape
      TDK SA – chrome tape
   5) Reference tapes for playback (JVC Test Tape)
      VTT-658 (for head azimuth adj.)
      VTT-656 (for motor speed, wow & flutter adj.)
      VTT-664 (for Reference level 1 kHz)
      VTT-675N (for playback frequency response)
   6) Resistors
      100 Ω (for measurement of the bias current)
      600 Ω (for attenuator matching)
2. Mechanical adjustment
   1) Gaze for checking the head position.
   2) Torque gaze
   3) Blank tape (C-120) for tape running checker



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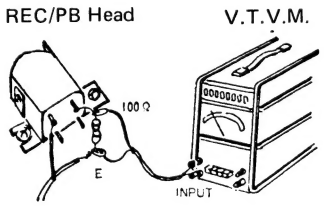
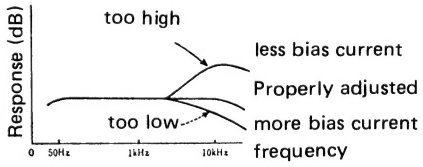
[II] Procedure for electrical adjustments

When you adjust following items, we recommend you to keep doing step No.

Playback system

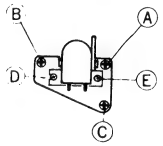
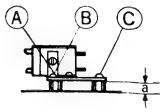
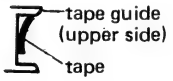
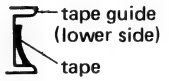
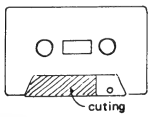
Step No.	Item	Procedure	Part	Rating	Remarks
1	Level meter deflection	1. Set the deck in the record mode. 2. Input 1 kHz signals (about –10 dBs) from LINE IN terminals and adjust LINE IN level controls so that the LINE OUT becomes 0.5 V. 3. Adjust VR109 and VR209 so that the VU meters indicate zero VU.	Main amp. circuit board TAA345104 VR109, 209	0.5 V 0 VU	○ The angle of meter deflection has been factory adjusted, but should be adjusted when parts are replaced. ○ Adjust right and left channel. ○ Set the output level controls at maximum.
2	Peak level	1. Set as same mode at step No. 1 and adjust VR303 so that the "0" indicator is lighting, and no lighting at –1 dB from step No. 1 with attenuator. 2. Adjust VR302 so that the "–5" indicator is lighting at –5 dB from step (1) with attenuator. 3. Adjust VR301 so that the "–10" indicator is lighting at –10 dB and no lighting at –11 dB from step (1) with attenuator. 4. Adjust VR304 so that the "+3" indicator is lighting at +3 dB and no lighting at +2 dB from step (1) with attenuator. 5. Adjust VR305 so that the "+6" indicator is lighting at +6 dB from step (1) with attenuator.	Main amp. circuit board VR303 VR302 VR301 VR304 VR305	 0 VU –5 VU –10 VU +3 VU +6 VU	
3	Playback sensitivity	1. Set equalizer switch at normal and playback reference tape VTT-664. 2. Adjust VR101 and VR201 so that LINE OUT becomes 0.5 V.	Main amp. circuit board VR101, 201	0.5 V	○ Adjust playback sensitivity when REC/PB head are re- ○ Set the output level controls at maximum. ○ Make this adjustment after making sure level meter deflection angle is correct.

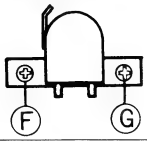
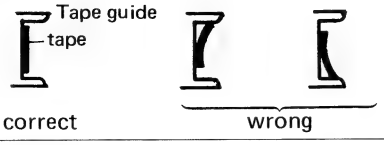
Recording system — Use MAXELL UD at SF mode, TDK SA at chrome mode and BASF QP-12 at normal mode.

Step No.	Item	Procedure	Part	Rating	Remarks
4	Check of REC/PB frequency response	Input 1 kHz (0 VU −20 dB) signals from LINE IN terminals make recording the blank tape, and then record 50 Hz, 10-kHz signals. When its tape playback, 50-Hz or 10 kHz output level becomes in rating at comparison 1 kHz output level as the reference frequency. (as basic thought, 1 kHz, 50 Hz and 10 kHz output level come the flat as same frequency response).	Normal VR107, 207 Chrome VR108, 208	reference frequency Normal 50 Hz 10 kHz Chrome 50 Hz 10 kHz	○ Set REC equalizer control at "0" position. ○ Adjust at normal and chrome mode, L channel and R channel.
5	Bias current	1. Set the deck in record mode. 2. With no signal, connect a 100 Ω resistor to the ground side (at record mode) of the head wire. Connect the V.T.V.M. acorss the resistor and set the BIAS SW at chrome or normal. 3. Disconnect a 100 Ω resistor, and V.T.V.M. wire. Input 1 kHz (0 VU −20 dB) signal from LINE IN terminals make recording the blank tape, and then record 10 kHz signal. When its tape playback, adjust VR-108, 208 (normal = VR107, 207) so that 10 kHz output level become rating at comparison 1 kHz output level as ±0 dB. Repeat its procedure till at frequency response become ±0 dB. Frequency response at 10 kHz too high — less bias current. Frequency response at 10 kHz too low — more bias current.	Chrome VR108, 208 Normal VR107, 207	Chrome 50 mV Normal 35 mV	1. Set REC equalizer control at "0" position. 2. If the meter pointer moving at PB mode when your finger touch a head wire, its wire is ground side at REC mode. (Because the head wire of 2-head type become opposite polarity at playback and at record.)
					
6	Recording signal current	1. Set the deck in the recording mode. 2. Input 1 kHz (−10 dB) signal from LINE IN terminals, and adjust the LINE IN level control so that the LINE OUT becomes 0.5 V. 3. When recording at 0 VU, then its tape play back. Adjust semi-fixed resistor so that the LINE OUT becomes 0.5 V. (Repeat this procedure for adjustment of response.)	Main amp. circuit board SF VR105, 205 Chrome VR106, 206	LINE OUT 0.5 V	○ Adjust it when head or other parts are replaced. ○ Adjust this procedure, after adjusted step No.1 — 5. ○ Set EQ and BIAS switches according to the type of the tape used. ○ Adjust semi-fixed resistor so that output level of L channel minus one of R channel is less than ±1 dB at normal, SF and chrome mode.

Step No.	Item	Procedure	Part	Rating	Remarks
7	Super ANRS	1. Disconnect the soldering position BIAS CUT of main circuit board so that oscillator does not operate. 2. Set the deck to the record mode. 3. Input 1 kHz 0 dBs signals from LINE IN terminals, adjust LINE IN level control so that the LINE OUT becomes −1 dBs. 4. Connect the V.T.V.M. to [8] [9] pin on Super ANRS circuit board. 5. With input 1 kHz −40 dB signals, adjust VRA01 and VRB01 so that the [8] [9] levels become 5.5 dB at ANRS switch turned ON from OFF. 6. Input 5 kHz −20 dB signal, adjust VRA02 and VRB02 so that the [8] [9] levels become +3.5 dB at ANRS switch turned ON from OFF. 7. Input 1 kHz signal, check the LINE OUT level so that it becomes constant −1 dBs (less than ±0.5 dB) when ANRS switch turned OFF from ON. 8. Turn ANRS switch in "Super" position when input 10 kHz signal from LINE IN. Check LINE OUT levels so that it becomes −6 dB down. 9. Playback the reference tape VTT-664 and check out level so that it less than ±1 dB when ANRS switch is turned OFF from ON. 10. Connect the position BIAS CUT of disconnected in step 1.	Main amp. circuit board TAA345104 Super ANRS Circuit Board TAA344208 [9] VRA01 [8] VRB01 [9] VRA02 [8] VRB02	−1 dBs +5.5 dB +3.5 dB −1 dBs ±0.5 dB −6 dB	

[III] Mechanical adjustment

Item	Procedure	Part	Rating	Remarks
REC/PB head (Azimuth and inclination)   	1. Adjust screws Ⓐ Ⓑ Ⓒ so that the "a" clearance becomes 8 mm. 2. Playback the test tape C-120 (front cutted cassette) and turn the screw Ⓐ so that the tape may run in the center of the guide. 1) If the tape touches the upper guide, loosen the screw Ⓐ.  2) If the tape touches the lower guide, fasten the screw Ⓐ.  3. Connect the V.T.V.M. to LINE OUT terminals (or REC/PB socket). 4. If output levels are unbalanced at L to R channel, adjust screw Ⓒ for inclination of the head. 1) If R channel output level is less, loosen the screw Ⓒ. 2) If L channel output level is less, fasten the screw Ⓒ. 5. Play back the reference tape VTT-658, adjust screw Ⓑ so that output level becomes maximum. 6. After adjustment the screws Ⓐ Ⓑ Ⓒ should be locked with bond.	screw Ⓐ Ⓑ Ⓒ screw Ⓐ screw Ⓒ screw Ⓑ	8 mm max.	1. Test tape (C-120)  2. If either of the REC/PB head show low performance because of wear, broken wire or excessice magnetization, it should be replaced, and then you must adjust the head azimuth, playback sensitivity, REC bias current, and REC signal current. (See Electrical adjustment.) 3. When REC/PB head replace, remove 2 screws Ⓓ, Ⓔ fastening the head. After replacing the head, screws Ⓓ Ⓔ should be locked with a bond.

Item	Procedure	Part	Rating	Remarks
Erase head (Height) 	Adjust screw F as same method as step 2 in REC/PB head adjustment. 	screw F		After replacing erase head, this adjustment should be done without failure.
Motor speed	1. Connect the counter meter to the LINE OUT terminals. 2. Play back reference tape VTT-656 (3000 Hz). 3. Adjust the semi-fixed resistor on the motor circuit board so that the speed is 3000 Hz ± 1.5 %.		3000 Hz ±1.5% (2955 – 3045 Hz)	If the wow/flutter meter built-in the counter meter, connect its INPUT terminals.
Take-up torque	Measure by the torque measure cassette or the torque gauge tool at the playback mode.		40—70 gr-cm	(If not) 1. Clean the capstan belt, rubber rim of idler and rubber rim of the take-up disk. 2. Replace the idler arm of the take-up and spring.
Fast forward torque	Measure as same method at FF mode.		70 gr-cm or more	(If not) 1. Clean the capstan belt, rubber rim of the idler, motor pulley rim of the flywheel. 2. Replace the main belt, idler, and reel disk ass'y.
REW torque	Measure as same method at REW mode.		70 gr-cm or more	(If not) 1. Clean the capstan belt, idler and rubber rim of it, and motor pulley, rim of the flywheel. 2. Replace the reel disk.
Auto-stop mechanism	Loosen 2 screws fastening the solenoid and move its position for adjustment.			Check to correct doing the locking parts of operation button, and feed little molibden to its sliding parts.
Timer recording machanism	Loosen screws fastening the solenoid to remove the locking plate for pause mode, and then move the solenoid position for adjustment.			
Door brake	Use other hole for spring of cassette door. The holes are 3 position, middle hole is for standard tension. If use the hole of near the panel, the cassette door close at little seconds, because spring tension is strong. If use opposite hole, cassette door close at many seconds.			(If not) Clean brake pipe, brake shaft and "O"-ring, and feed grease (GB-TS1) them.
Wow/Flutter	Play back reference tape VTT-656 and connect the wow/flutter meter to LINE OUT. Check wow and flutter so that its meter becomes less than 0.15% (RMS).			

[IV] Repair of Wow Flutter

If wow and flutter increase, check the following points. If there is defect in revolving parts, the wow and flutter generated will increase in proportion to the number of revolutions.

Play a 3000 Hz test tape, and defective part can be detected from the sound.

Section	Trouble	Repair
Capstan and flywheel	Capstan shaft has excessive run-out. Flywheel turns heavily. (shaft seisure, thrust play, etc.)	Replace flywheel. Clean the capstan shaft and the groove in the flywheel. Apply oil to the metal position. Replace the capstan assembly.
Pinch roller	Rough rotation (Deformation scratches, or dust.) The angular position of the pinch roller is not correct. The pinch roller pressure is not correct.	Replace pinch roller arm ass'y. Clean the pinch roller. Adjust the pinch roller so that it is parallel with the captan shaft. Replace the pinch roller spring.
Belt	Belt has undue run-out Belt is dirty or slippery.	Clean the belt. Replace the belt.
Back tension	Back tension is irregular, or back tension is too strong.	Replace back tension spring (under supply disc).
Motor	Motor shaft has undue run-out. Motor pulley is oily and dusty.	Replace motor. Clean motor pulley.
Take-up idler arm	Pulley has deflection. Pulley is stuck.	Replace take-up idler arm.

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

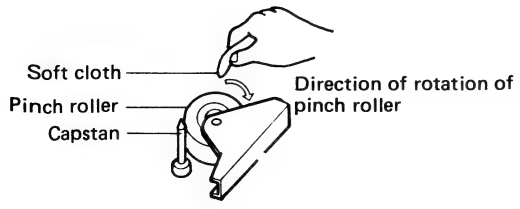
After long use, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

1) Press the EJECT button for opening the cassette door.
2) Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
   (It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

1) Press the PLAY button, and the pinch roller will move out and rotate.
2) Apply a soft cloth (soaked in alcohol, it will be more effective) to the rotating pinch roller and capstan.
   Be careful not to let the cloth get caught!
   *Do not use any cleaner besides alcohol or a specifically prepared tape head cleaning solution.



3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.
*Do not use thinner or benzine.

Demagnetizing

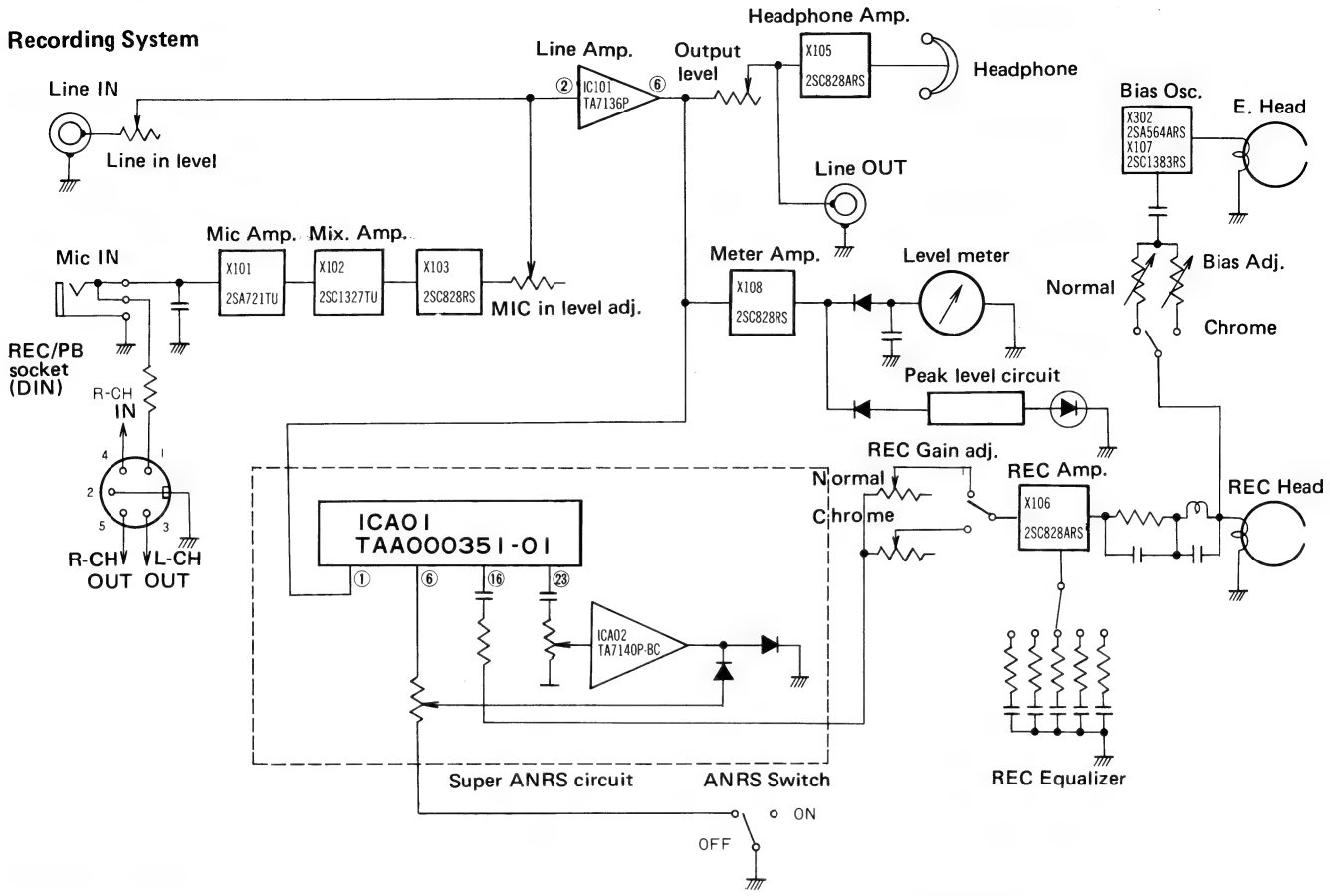
The heads are made from a material resistant to magnetization, but after long use they may become magnetized. A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

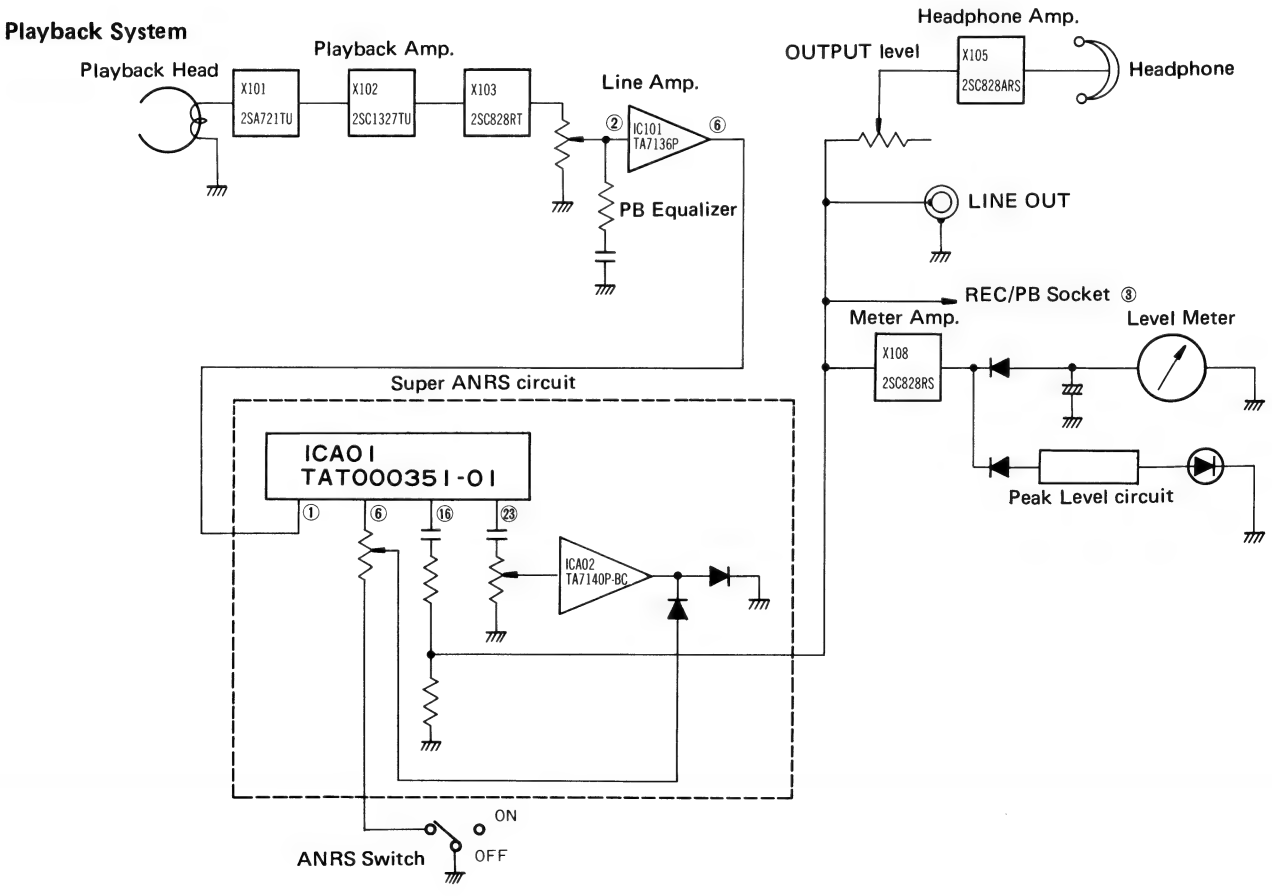
1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head.
   Gradually move it away from the head and switch it off at a distance of more than 30 cm (12").
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.
   *Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Oiling

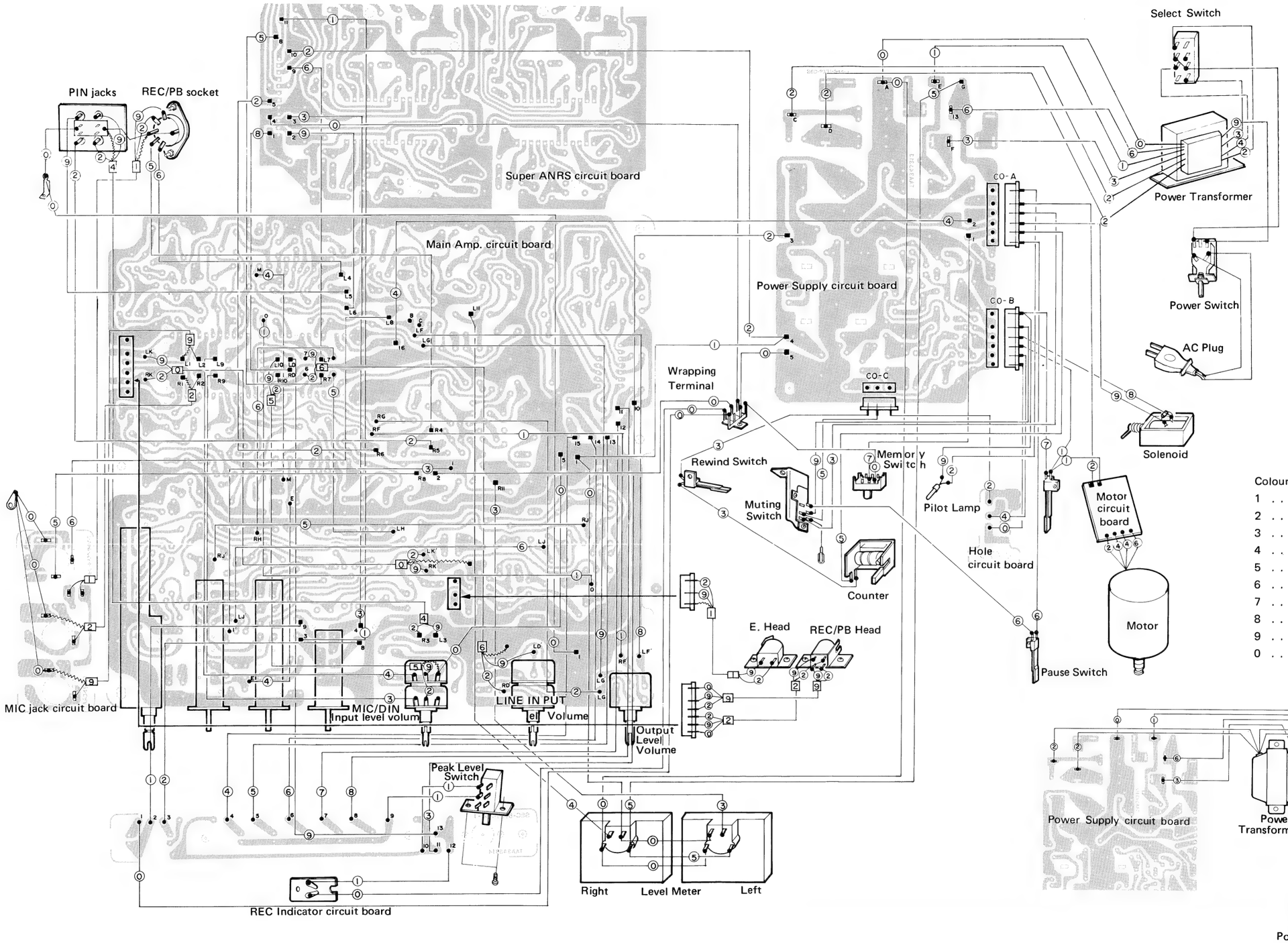
Feed one or two drops of machine oil to the rewind roller shaft, pinch roller shaft and magnet pulley shaft once or twice a year under normal conditions of use.
Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Block Diagram





Wiring of KD-75



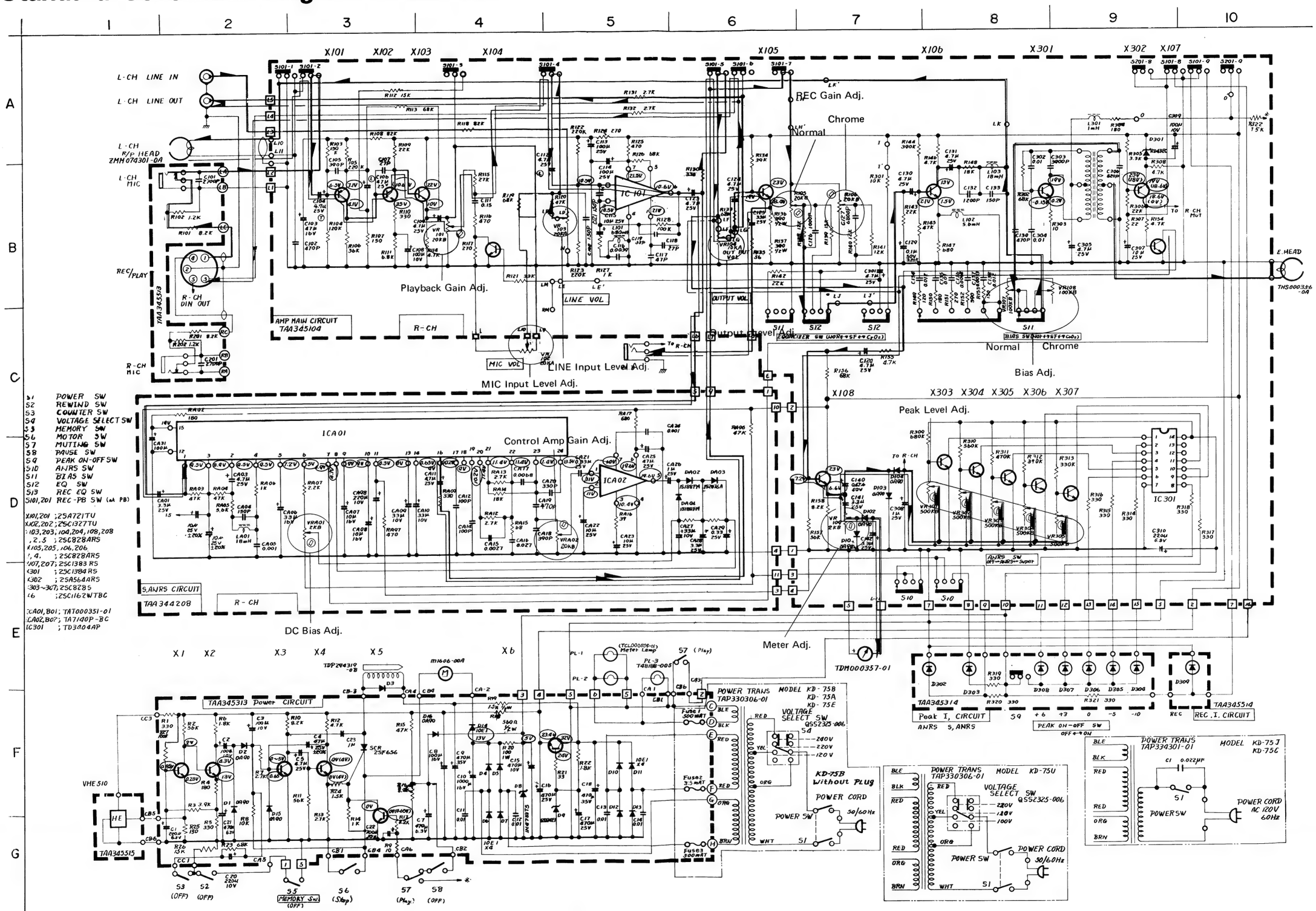
KD-75A/B/E/U

Colour codes are shown below.

1	. . . . .	Brown
2	. . . . .	Red
3	. . . . .	Orange
4	. . . . .	Yellow
5	. . . . .	Green
6	. . . . .	Blue
7	. . . . .	Violet
8	. . . . .	Grey
9	. . . . .	White
0	. . . . .	Black

KD-75C/J

Standard Schematic Diagram of KD-75



[Variable resistors]

VR101, 201	Playback gain adj.
VR102, 202	MIC Input level volume
VR103, 203	LINE Input level volume
VR104, 204	Output level volume
VR105, 205	REC gain adj. (normal)
VR106, 206	REC gain adj. (chrome)
VR107, 207	Bias adj. (normal)
VR108, 208	Bias adj. (chrome)
VR109, 209	Meter adj.
VR301–305	Peak level adj.
VRA01, VRB01	ANRS DC bias adj.
VRA02, VRB02	ANRS control amp. gain adj.

[Switches]

S1	Power switch (at OFF mode)
S2	Rewind switch (at STOP mode)
S3	Counter switch (on Counter)(at OFF mode)
S5	Memory switch (at OFF mode)
S6	Motor switch (at STOP mode)
S7	Muting switch (at PLAY mode)
S8	Pause switch (at OFF mode)
S9	Peak level select switch (at OFF mode)
S10	ANRS switch (at ON mode)
S11	Bias switch (at normal mode)
S12	Equalizer switch (at normal mode)
S13	REC EQ switch (at 0 mode)
S101, 201	REC/PB switch (at PLAYBACK mode)

[Diodes]

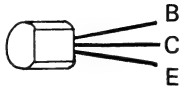
D101–104, 201–204	0A90	Ge. Diode	Main amp. circuit board
D301	RD43EC	Zener Diode	
D1, D2	0A90	Ge. Diode	Power supply circuit board
D4–7, 10–14	T30155-001 or V06-B	Si. Diode	
D15	MA150	Si. Diode	
D8	1N4733T5	Zener Diode	
D9	RD24E		
DA01, B02, B01, B02	1S188FM	Ge. Diode	Super ANRS circuit board
DA03, B03	1S2076A	Si. Diode	

[Transistors]

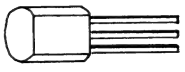
X101, 201	2SA721TU	Main amp. circuit board
X102, 202	2SC132TU	
X103, 203, 104, 204, 108, 208	2SC828RS	
X105, 205, 106, 206	2SC828ARS	
X107, 207	2SC1383RS	
X301	2SC1384RS	
X302	2SA564ARS	
X303–307	2SC828RS (Peak level circuit)	
X1, 2, 3	2SC828RS	Power supply circuit board
X3, 4	2SC828ARS	
X6	2SC1162WTBC	

[IC]

IC101, 201	TA7136P	Power supply circuit board
IC301	TD3404AP (Peak level circuit)	
ICA01, B01	TAT000351-01	Super ANRS circuit board
ICA02, B02	TA7140P-BC	

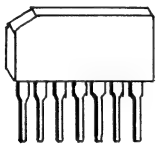


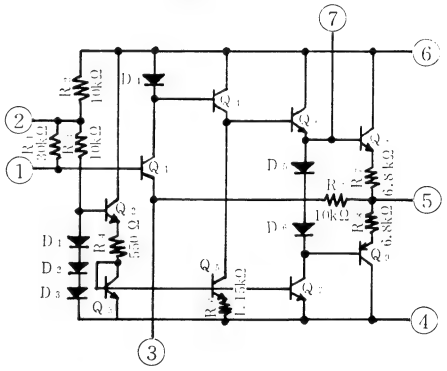
B Base
C Collector — Transistor
E Emitter



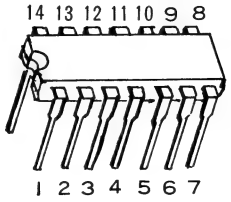
K Cathode
A Anode — Thyristor 2SF656
G Gate

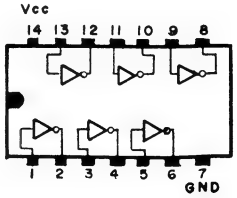
IC TA7140P-B





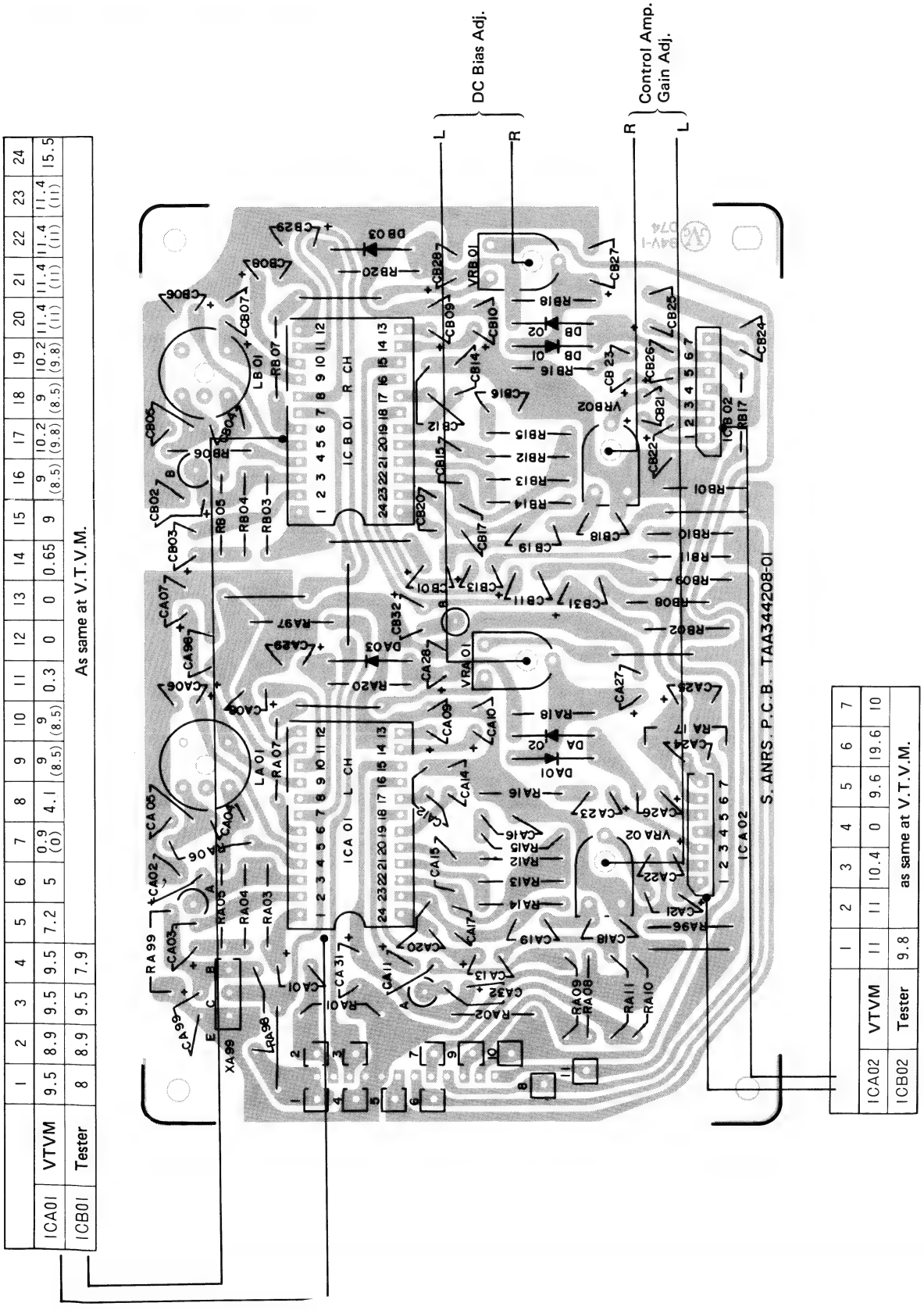
IC TD3404AP
(Top View)





Circuit Board Parts

Super ANRS Circuit Board



		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ICA01	VTVM	9.5	8.9	9.5	9.5	7.2	5	0.9 (0)	4.1	9 (8.5)	9 (8.5)	0.3	0	0	0.65	9	9 (8.5)	10.2 (9.8)	9 (8.5)	10.2 (9.8)	11.4 (11)	11.4 (11)	11.4 (11)	11.4 (11)	15.5
ICB01	Tester	8	8.9	9.5	7.9	As same at V.T.V.M.																			

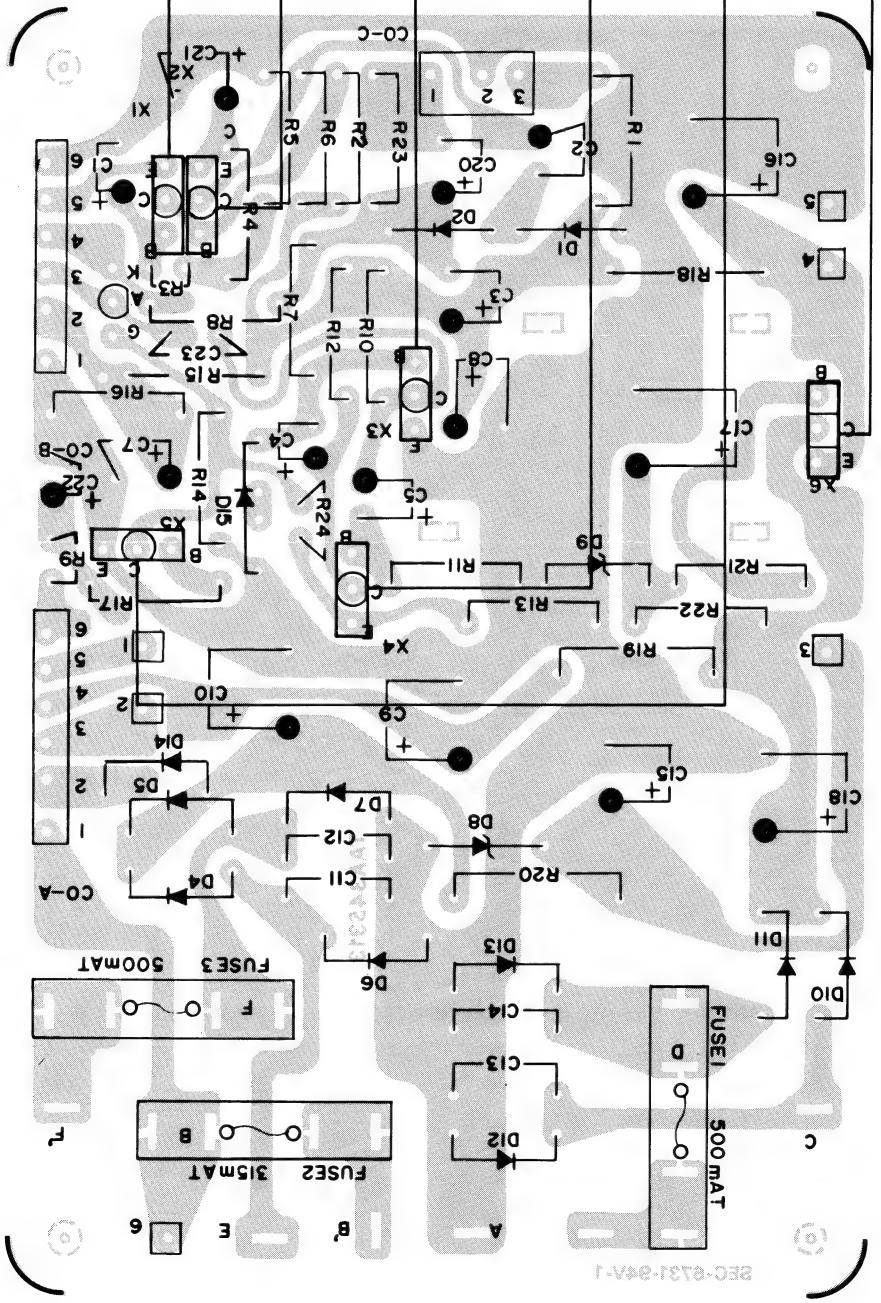
		1	2	3	4	5	6	7
ICA02	VTVM	11	11	10.4	0	9.6	19.6	10
ICB02	Tester	9.8	as same at V.T.V.M.					

Super ANRS Circuit Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
RA03, B03, A04, B04	QRD141K-473	C. Resistor	47 kΩ ¼ W	4
RA05, B05	" -562	"	5.6 kΩ ¼ W	2
RA06, B06	" -102	"	1 kΩ ¼ W	2
RA07, B07	" -222	"	2.2 kΩ ¼ W	2
RA18, B18	" -223	"	22 kΩ ¼ W	2
RA09, B09	" -331	"	330 Ω ¼ W	2
RA12, B12, A13, B13	" -272	"	2.7 kΩ ¼ W	4
RA14, B14	" -183	"	18 kΩ ¼ W	2
RA15, B15	" -680	"	68 kΩ ¼ W	2
RA16, B16	" -390	"	39 kΩ ¼ W	2
RA20, B20	" -103	"	10 kΩ ¼ W	2
RA96	" -473	"	47 kΩ ¼ W	1
RA97	" -471	"	470 Ω ¼ W	1
	" -0R0	"	0 Ω ¼ W	8
CA01, B01	QEW41EA-335	E. Capacitor	3.3 μF 25 V	2
CA03, B03, A11, B11	" -475	"	4.7 μF 25 V	4
CA04, B04	QCS11HK-151	Fixed C. Capacitor	150 pF 50 V	2
CA05, B05	QCY11HK-102	"	0.001 pF	2
CA06, B06, A09, B09, A10, B10, A02, B02	QEW41CA-336	E. Capacitor	33 μF 16 V	8
CA07, B07, A08, B08	" -106	"	10 μF 16 V	4
CA12, B12, A14, B14	QCS11HK-101	Fixed C. Capacitor	100 pF	4
CA15, B15	QFM41HJ-272	M. Capacitor	0.0027 μF	2
CA16, B16	" -273	"	0.027 μF	2
CA17, B17	QFM42AJ-682	"	0.0068 μF	2
CA18, B18	QCS11HK-391	Fixed C. Capacitor	390 pF	2
CA19, B19	" -471	"	470 pF	2
CA20, B20	" -331	"	330 pF	2
CA22, B22, A23, B23	QEW41EA-106	E. Capacitor	10 μF 25 V	4
CA24, B24	QFM42AK-102	M. Capacitor	0.001 μF	2
CA26, B26	QEW41EA-105	E. Capacitor	1 μF 25 V	2
CA27, B27, A32, B32	QEW41CA-336	E. Capacitor	33 μF 16 V	4
CA28, B28	QEW41EA-335	"	3.3 μF 25 V	2
CA31, B31	QEW41HA-107	"	100 μF	2
DA01, B01, A02, B02	1S188FM	Ge. Diode		4
DA03, B03	1S2076A	Si. Diode		2
ICA02, B02	TA7140P-BC	I.C.		2
ICA01, B01	TAT000351-01	"		2
	E43727-002	Tab	(1–11)	9
RA02, B02	QRD146K-181	C. Resistor	180 Ω ¼ W	2
RA17, B17	" -681	"	680 Ω ¼ W	2
CA21, B21, A29, B29	QEB41HM-334M	L.L.E. Capacitor	0.33 μF	4
CA25, B25	QEW41EA-476	E. Capacitor	47 μF 25 V	2
VRA01, B01	QVP8A0B-023	V. Resistor	2 kΩ	2
VRA02, B02	" -024	"	20 kΩ	2
LA01, B01	TAC000320-01	V. Inductor		2
	TAA344208-02	Circuit Board	Not supplied as parts ass'y	1

Power Supply Circuit Board

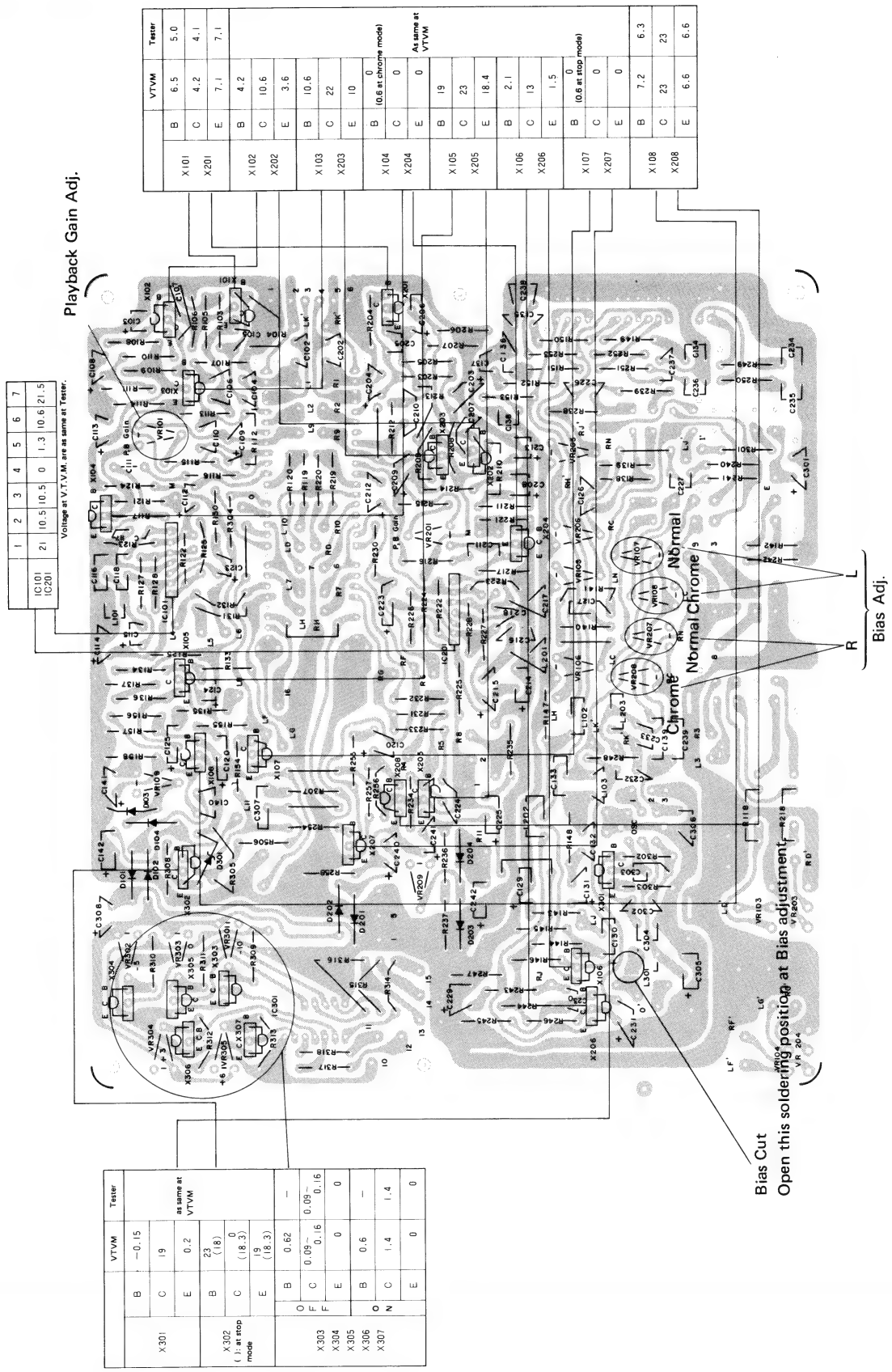
		VTVM Tester
X1	B	0.85
	C	2
	E	0.25
X2	B	2
	C	4.3
	E	1.3
X3 ( ) at auto stop mode	B	0.65 (0~0.6)
	C	0 (0~5)
	E	0
X4 ( ) at auto stop mode	B	0 (0~3)
	C	9 (4~9)
	E	0 (0~4)
X5 ( ) at pause mode	B	0 (0.65)
	C	0
	E	0
X6	B	24
	C	32
	E	23.4



Power Supply Circuit Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	TAA345313-01	Circuit Board	KD-75B/E	1
	" -02	"	KD-75C/J	1
R1, 5	QRD141K-331	C. Resistor	330 Ω ¼ W	2
R2, 11	" -563	"	56 kΩ ¼ W	2
R4	" -181	"	180 Ω ¼ W	1
R6	" -182	"	1.8 kΩ ¼ W	1
R7	" -272	"	2.7 kΩ ¼ W	1
R8, 17	" -103	"	10 kΩ ¼ W	2
R10	" -822	"	8.2 kΩ ¼ W	1
R12	" -472	"	4.7 kΩ ¼ W	1
R13	" -272	"	2.7 kΩ ¼ W	1
R14	QRD143K-102	"	1 kΩ ¼ W	1
R15	QRD141K-473	"	47 kΩ ¼ W	1
R16	" -822	"	8.2 kΩ ¼ W	1
R18, 19	QRD121K-561	"	560 Ω ½ W	2
R20	QRG016J-101	O.M.F. Resistor	100 μF 1 W	1
R21	QRD146K-330	C. Resistor	33 μF ¼ W	1
R22	" -182	"	1.8 kΩ ¼ W	1
R23	QRD141K-682	"	6.8 kΩ ¼ W	1
R24	QRD143K-152	"	1.5 kΩ ¼ W	1
R25	" -151	"	150 Ω ¼ W	1
R26	" -153	"	15 kΩ ¼ W	1
R3	" -392	"	3.9 kΩ ¼ W	1
R9	" -100	"	3.9 Ω ¼ W	1
C1, 2, 3, 4	QEW41AA-107	E. Capacitor	100 μF 10 V	3
C5	QEW41EA-475	"	4.7 μF 25 V	1
C7, 21	QEW40JA-477	"	470 μF 6.3 V	2
C8	QEW41CA-107	"	100 μF 16 V	1
C9, 18	QEW41VA-477	"	470 μF 35 V	2
C10	QEW41CA-108	"	1000 μF 16 V	1
C11, 12, 13, 14	QCF12HP-103	F.C. Capacitor	0.01 μF	4
C15	QEW41AA-477	E. Capacitor	470 μF 10 V	1
C16, 17	QEW41EA-477	"	470 μF 25 V	2
C20	QEW41AA-227	"	220 μF 10 V	1
C22	QEW41CA-336	"	33 μF 16 V	1
C23	QFN41HA-105	"	1 μF	1
	E43727-002	Tab	(1–6)	6
	E40130-001	"	(A–F)	6
	QMC0627-01	Plug Ass'y	CO-A, CO-B	2
	QMC0327-01	"	CO-C	1
	QMC0657-01	Socket Ass'y	CO-A, CO-B	2
	QMC0357-01	"	CO-C	1
	TAR272448-01	Heat Sink		1
X1, 2, 5	2SC828RS	Si. Transistor		3
X3, 4	2SC828ARS	"		2
X6	2SC1162WTBC	"		1
SCR-1	2SF656	SCR		1
D9	RD24E	Zener Diode		1
D8	1N4733T5	"		1
D1, 2	0A90	Ge. Diode		2
D4,5,6,7,10,11,12,13,14	T30155-01 or V06-B	Si. Diode		9
D15	MA150	"		1
	LPSP3008ZS	Screw	for X6	1
TAZ001331	TAZ001331-02BS	Fuse Holder	KD-75B	6
	TAZ001331-02	"	KD-75E	6
	QMF51A2-R50LBS	Fuse	500 mAT, KD-75B	2
	QMF51A2-R50	"	500 mAT, KD-75E	2
	QMF51A2-R315BS	"	315 mAT, KD-75B	1
	QMF51A2-R315	"	315 mAT, KD-75E	1

Main Amp Circuit Board



	1	2	3	4	5	6	7
IC101 IC201	21	10.5	10.5	0	1.3	10.6	21.5

Voltage at V.T.V.M. are as same at Tester.

		VTVM	Tester
X101 X201	B	6.5	5.0
	C	4.2	4.1
	E	7.1	7.1
X102 X202	B	4.2	
	C	10.6	
	E	3.6	
X103 X203	B	10.6	
	C	22	
	E	10	
X104 X204	B	0 (0.6 at chrome mode)	
	C	0	
	E	0	As same at VTVM
X105 X205	B	19	
	C	23	
	E	18.4	
X106 X206	B	2.1	
	C	13	
	E	1.5	
X107 X207	B	0 (0.6 at stop mode)	
	C	0	
	E	0	
X108 X208	B	7.2	6.3
	C	23	23
	E	6.6	6.6

		VTVM	Tester
X301	B	−0.15	
	C	19	
	E	0.2	as same at VTVM
X302 ( ): at stop mode	B	23 (18)	
	C	0 (18.3)	
	E	19 (18.3)	
X303 X304 X305 X306 X307	B	0.62	—
	C	0.09~0.16	0.09~0.16
	E	0	0
	B	0.6	—
	C	1.4	1.4
	E	0	0

Main Amp Circuit Board Parts List

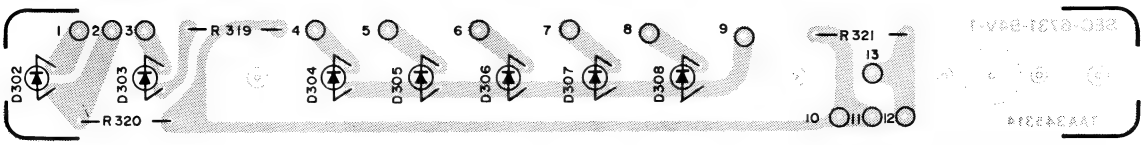
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*TAA345104-01	Circuit Board	Not supplied as parts ass'y KD-75B/E	1
	" -02	"	KD-75C/J	1
R103, 203	QRD141K-154	C. Resistor	150 kΩ ¼ W	2
R104, 204, 156, 256	" -124	"	120 kΩ ¼ W	4
R105, 205	" -224	"	220 kΩ ¼ W	2
R106, 206	" -563	"	56 kΩ ¼ W	2
R107, 207, 153, 253	" -151	"	150 kΩ ¼ W	4
R108, 208, 118, 218	" -823	"	82 kΩ ¼ W	4
R109,209,143,243,306, 142,242	" -223	"	22 kΩ ¼ W	7
R110,210,314–318, 130, 230	" -331	"	330 Ω ¼ W	9
R111, 211, 133, 233	" -682	"	6.8 kΩ ¼ W	4
R140,240,138,238,141,241	" -123	"	12 kΩ ¼ W	6
R114,214,146,246,154, 254,308,155,255	" -472	"	4.7 kΩ ¼ W	9
R115, 215	" -273	"	27 kΩ ¼ W	2
R116, 216	" -471	"	470 Ω ¼ W	2
R152, 252	" -391	"	390 Ω ¼ W	2
R117, 217	" -271	"	270 Ω ¼ W	2
R119,219,126,226,302	" -683	"	68 kΩ ¼ W	5
R121, 221, 305	" -333	"	33 kΩ ¼ W	3
R122, 222, 123, 223	" -224	"	220 kΩ ¼ W	4
R128, 228	" -104	"	100 kΩ ¼ W	2
R127, 227	" -102	"	1 kΩ ¼ W	2
R131,231,132,232	" -272	"	2.7 kΩ ¼ W	4
R301	" -103	"	10 kΩ ¼ W	1
R134, 234	" -393	"	39 kΩ ¼ W	2
R135, 235	" -560	"	56 kΩ ¼ W	2
R139, 239, 112, 212	" -153	"	15 kΩ ¼ W	4
R144, 244, 312	" -394	"	390 kΩ ¼ W	3
R145, 245, 120, 220	" -473	"	470 kΩ ¼ W	4
R147, 247	" -681	"	680 Ω ¼ W	2
R148, 248	" -183	"	18 kΩ ¼ W	2
R149, 249	" -121	"	120 Ω ¼ W	2
R150, 250	" -181	"	180 Ω ¼ W	2
R151, 251	" -271	"	270 Ω ¼ W	2
R158, 258	" -822	"	8.2 kΩ ¼ W	2
R157, 257	" -563	"	56 kΩ ¼ W	2
	QWY123-022	Bus Wire	0 Ω ¼ W	7
R307	QRD141K-220	C. Resistor	22 Ω ¼ W	1
R309	" -684	"	680 kΩ ¼ W	1
R310	" -564	"	560 kΩ ¼ W	1
R311	" -474	"	470 kΩ ¼ W	1
R313	" -334	"	330 kΩ ¼ W	1
R322	" -822	"	8.2 kΩ ¼ W	1
C103, 203	QEW41CA-476	E. Capacitor	47 μF 16 V	2
C105, 205	QCS11HK-391	Fixed C. Capacitor	390 pF 50 V	2
C107, 207, 118, 218	" -270	"	27 pF 50 V	4
C108, 208	QEW41AA-107	E. Capacitor	100 μF 10 V	2
C109, 209	QEB41EM-475	L.L.E. Capacitor	4.7 μF 25 V	2
C115, 215	QEW41EA-106	E. Capacitor	27 μF 25 V	2
C116, 216	QFM42AK-392	Mylar Capacitor	0.0039 μF	2
C117, 217	QCS11HK-470	Fixed C. Capacitor	47 pF	2
C123, 223, 124, 224	QEW41EA-475	E. Capacitor	4.7 μF 25 V	4
C110, 210, 121, 221	QCS11HK-151	Fixed C. Capacitor	150 pF	4
C125, 225	QEW41EA-336	E. Capacitor	33 μF	2
C126, 226	QEM42AK-102	Mylar Capacitor	0.001 μF	2
C127, 227	QFM41HK-682	"	0.0068 μF	2
C129, 229	QEB41HM-104	L.L.E. Capacitor	0.1μ F	2
C130,230,131,231	QEW41EA-475	"	4.7 μF 25 V	4
C132, 232	QFM42AK-122	Mylar Capacitor	0.0012 μF	2
C133, 233	QCS11HJ-151	Fixed C. Capacitor	150 pF	2
C134, 234, 138, 238	QFM41HK-123	Mylar Capacitor	0.012 μF	4

No. 4156

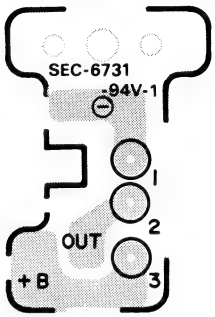
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C135, 235	QFM41HK-103	Mylar Capacitor	0.01 μF	2
C136, 236	" -682	"	0.0068 μF	2
C137, 237	" -332	"	0.0033 μF	2
C140, 240, 308	QEW41EA-105	E. Capacitor	1 μF 25 V	5
C142, 242	" -335	"	3.3 μF 25 V	2
C139, 239, 301, 305	" -475	"	4.7 μF 25 V	5
C302 304	QFM41HK-103	Mylar Capacitor	0.01 μF	2
C102, 202	QCS11HJ-471	Fixed C. Capacitor	470 pF	2
C104, 204	QEE41EM-475	Ta. E. Capacitor	4.7 μF	2
C106, 206	QEB41EM-476	L.L.E. Capacitor	0.15 μF	2
C111, 211	QFM41HJ-154	Mylar Capacitor	0.15 μF	2
C112, 212	QEB41EM-475	L.L.E. Capacitor	4.7 μF 25 V	2
C113, 213, 114, 214	QEW41EA-107	E. Capacitor	100 μF 25 V	4
C139, 239	QFS42BK-471	Poly. Capacitor	470 pF	2
C303	QFZ0001-392	"	0.0039 μF	1
C306	QFS42BK-102	"	0.001 μF	1
C307	QEW41EA-106	E. Capacitor	10 μF	1
C309	QEW41AA-107	"	100 μF	1
R124, 224	QRD146K-271	C. Resistor	270 Ω ¼ W	2
R125, 225	" -471	"	470 Ω ¼ W	2
R136, 236, 137, 237	QRD121K-391	"	390 Ω ½ W	4
R303	QRD146K-100	"	10 Ω ¼ W	1
R304	" -181	"	180 Ω ¼ W	1
VR101, 201	QVP8A0B-024	S.F. Resistor	20 kΩ	2
VR102, 202	*QVL2A3A-024V	Volume		1
VR103, 203	*QVL6A3A-024V	"		1
VR104, 204	*QVD8A2A-014V	"		1
VR105, 205, 106, 206	QVP8A0B-024	S.F. Resistor	20 kΩ(B)	4
VR107, 207, 108, 208	" -015	"	100 kΩ(B)	4
VR109, 209	" -023	"	2 kΩ(B)	2
VR301–305	" -055	"	500 kΩ(B)	5
L101, 201	TAC000324-06	Inductor		2
L102, 202	" -04	"		2
L103, 203	" -01	"		2
L301	" -03	"		1
	*TAB345518-01	Osc. Coil		1
	TAS345523-01	Shield Case		1
X101, 201	2SA721TU	Si. Transistor		2
X102, 202	2SC1327TU	"		2
X103,203,104,204,108, 208	2SC828RS	"		8
X107, 207	2SC1383RS	"		2
X105,205,106,206	2SC828ARS	"		4
X301	2SC1384RS	"		1
X302	2SA564ARS	"		1
X303–307	2SC828S	"		5
D101–104, 201–204	0A90	Ge. Diode		8
D301	RD4,3EC	Zener Diode		1
IC101, 201	TA7136P	I. C.		2
IC301	TD3404AP	I. C.		1
S101, 201	QSS9201-001	Slide SW.	REC/PB	2
S10	*QSL2310-002	Lever SW.	ANRS	1
S11, 12	*QSL4310-002	"	EQ Bias	2
S13	*QSR6045-200	Rotary SW.	REC EQ	1
	LPSP3006ZS	Screw	for Rotary SW.	3
	E43727-002	Tab		40
	QMC0627-01	Plug Ass'y	6P	1
	QMC0327-01	"	3P	1

Other Circuit Board Parts

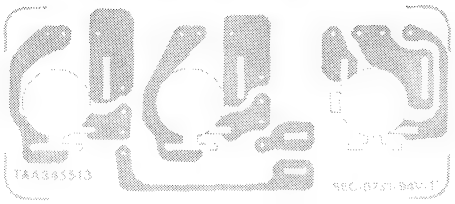
Peak Level Indicator Circuit Board



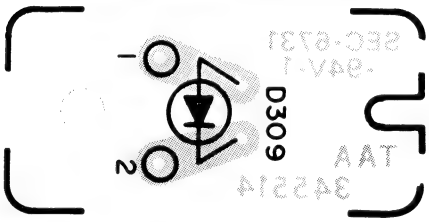
REC Indicator Circuit Board



Mic Jack Circuit Board



Hole Element Circuit Board



Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
Mic. Jack Circuit Board	*TAA345513-01	Circuit Board		1
R101, 201	QRD143K-332	C. Resistor	3.3 kΩ ¼ W	2
R102, 202	" -822	"	8.2 kΩ ¼ W	2
	E40516-001	Tab		2
	TAJ305307-02	Mic & H.P. Jack Ass'y		1
C101, 201	QCY41HK-272	Fixed C. Capacitor	0.0027 μF	2
Peak Level Indicator Circuit Board	*TAA345314-01	Circuit Board		1
	TLR102	L.E.D.		6
	TLG102	L.E.D.		1
	TER305427-01	Spacer		7
S9	QSP2210-041	Push Switch	for Peak Level	1
REC Indicator Circuit Board	*TAA345514-01	Circuit Board		1
	TLR102	L.E.D.		2
	TER305427-01	Spacer		1
Hole Element Circuit Board	*TAA345515-01	Circuit Board		1
	VHE510	Hole Element		1

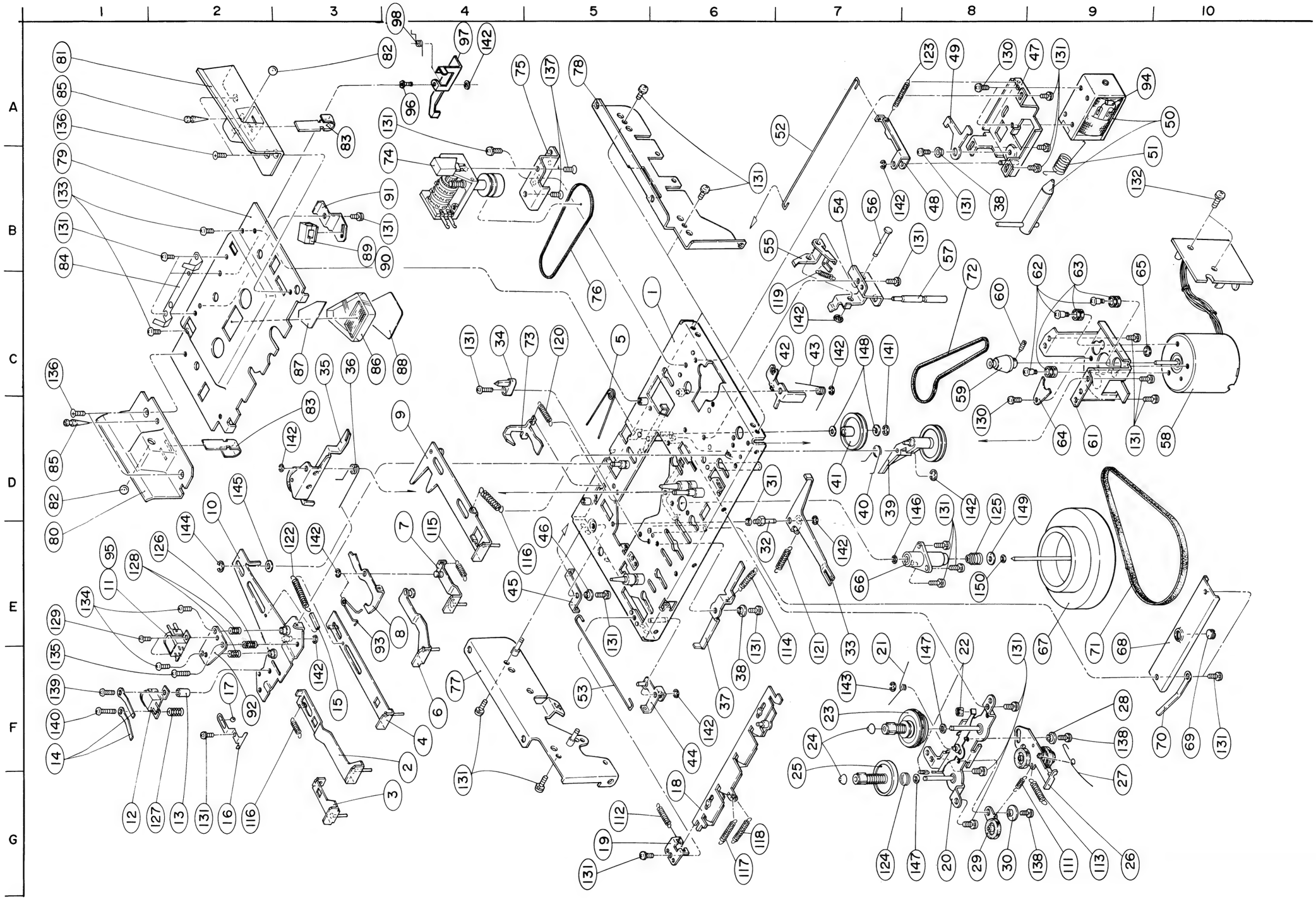
Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	*TGB345201-0A	Chassis Base Ass'y		1
2	*TGB345413-0A	Rec. Bar Ass'y		1
3	*TGB345416-0A	Rew. Bar Ass'y		1
4	*TGB345418-0A	Play Bar Ass'y		1
5	TFW294447-02	Play Bar Spring		1
6	*TGB345420-0A	FF Bar Ass'y		1
7	*TGB345423-0A	Stop Bar Ass'y		1
8	*TFB345426-01	Eject Lever		1
9	*TGB345427-0A	Pause Bar Ass'y		1
10	*TGB345430-0A	Slide Base Ass'y		1
11	ZMM0474303-0A	R. P. Head		1
12	THS000356-0A	E. Head Ass'y		1
13	*T30302-080	Collar		1
14	VKZ4001-009	Wire Holder		2
15	TJN265559-01	Silencer		1
16	*TFP345488-01	Head Panel Spring		1
17	T41615-004	Steel Ball		1
18	*TGB345434-0A	Push Button Cam Ass'y		1
19	*TFB345438-01	Cam Stopper		1
20	*TGB294436-0D	Reel Disk Bracket Ass'y		1
21	TFW336525-01	Brake Spring		1
22	TER265487-01	Brake Rubber		2
23	*TGP294462-0C	Take-up Disk Ass'y		1
24	TEP357437-01	Reel Stopper		2
25	*TGP294464-0F	Supply Disk Ass'y		1
26	*TGX294488-0B	F.F. Arm Ass'y		1
27	*TFW345442-01	F.F. Spring		1
28	TFH294492-01	Metal		1
29	TGX294490-0A	Rewind Idler Arm Ass'y		1
30	TFH294491-01	Metal		1
31	T30302-061	Collar	Rec Bar	1
32	*TFH345443-01	Stud	Brake Arm	1
33	*TFB345444-01	Brake Lever		1
34	*TEP345445-01	Cassette Guide		1
35	*TGB345446-0B	Pinch Roller Arm Ass'y		1
36	TFW294483-01	Pinch Roller Spring		1
37	*TFB294478-03	Review Lever		1
38	T43909-001	Metal	Rew Lever	1
39	TGP294479-0A	Take-up Lever Ass'y		1
40	TFW294482-02	Lever Spring		1
41	TGP265571-0A	Idler Pulley Ass'y		1
42	*TFB345449-01	Lock Plate	Pause	1
43	*TFW345450-01	Spring		1
44	*TGB345451-0A	Stop Arm (3) Ass'y		1
45	*TFB345454-01	Stop Arm (2)		1
46	T43909-001	Metal		2
47	*TGB345455-0A	Solenoid Bracket Ass'y		1
48	*TFB345458-01	Stop Arm (1)		1
49	*TFB345459-01	Timer Rec. Arm		1
50	*TDP294319-0C or 0CT	D.C. Solenoid		1
51	*TFW345460-01	Spring		1
52	*TFW345461-01	Wire		1
53	*TFW345461-02	Wire		1
54	*TFB345462-01	Bracket		1
55	*TFB345463-01	Eject Arm		1

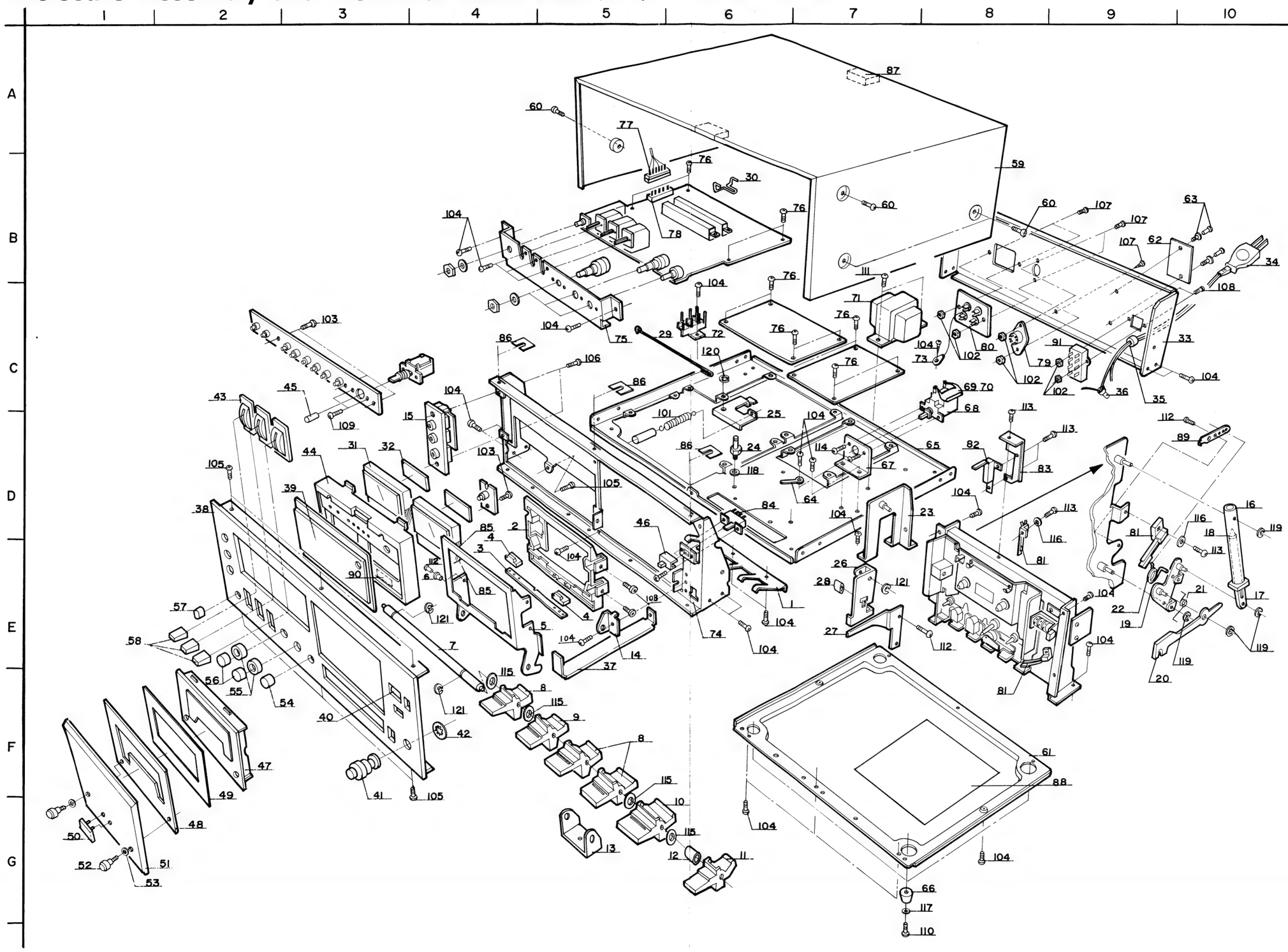
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	*TFH345464-01	Shaft	Eject Arm	1
57	*TFH345465-01	Eject Shaft		1
58	m1606-00A	Motor Ass'y		1
59	*TFH345466-01	Motor Pulley		1
60	YRS2603Z	Screw		1
61	*TFB345467-01	Motor Bracket		1
62	*TFH345468-01	Motor Screw		3
63	TER357465-01	Cushion Rubber		3
64	*TFB345469-01	Rubber Stopper		1
65	TER313570-01	Motor Cushion		1
66	*TGD345470-0A	Capstan Metal Ass'y		1
67	*TGD345301-0A	Flywheel Ass'y		1
68	*TFB345471-01	Flywheel Holder		1
69	TEP357456-01	Thrust Screw		1
70	TAW000473-01	Wire Clamp		1
71	*TEB345472-01	Capstan Belt		1
72	*TEB345473-01	Take-up Belt		1
73	*TFB345474-01	Rec. Safety Lever		1
74	*TGN345302-0A	Counter Ass'y		1
75	*TFB345475-01	Counter Bracket		1
76	*TEB345476-02	Counter Belt		1
77	*TGB345477-0A	Holder Bracket (L) Ass'y	Left	1
78	*TFB345304-01	Holder Bracket (R) Ass'y	Right	1
79	*TFB345305-01	Holder Plate		1
80	*TEP345315-01	Holder (L)		1
81	*TEP345316-01	Holder (R)		1
82	T41615-007	Steel Ball		2
83	*TFP345481-01	Spring Plate		2
84	*TFP345482-01	Spring Plate		1
85	V44394-001	Stopper Cushion		2
(86–88)	KD75SA-CIN	Cassette Indicator Ass'y		1 set
86	*TEP345483-01	Cassette Indicator		1
87	*TEK345484-01	Cement Sheet		1
88	*TJP345485-01	Sheet		1
89	TER34470-01	Lamp Rubber		1
90	T48188-005	Pilot Lamp	PL 3	1
91	TFP345486-01	Lamp Holder		1
92	ZMM074411-01	Head Plate		1
93	TFW345479-01	Spring	Eject Lever	1
94	T30155-001 (V06-B)	Si. Diode	for Solenoid	1
95	THC037417-01	Head Plate	for R.P. Head	1
96	TFH345529-01	Stud		1
97	TFB345527-01	Safety Arm		1
98	TFW345480-01	Spring		1
111	T30300-126	Spring	Rew Idler Arm	1
112	T30300-190	Spring	ϕ 0.45 x 3.2 x 11.35 Rew Bar	1
113	" -151	"	F.F. Arm Ass'y	1
114	" -189	"	ϕ 0.45 x ϕ 3 x 12.3 F.F. Bar	1
115	" -191	"	ϕ 0.35 x ϕ 3 x 13.55 Stop Bar	1
116	T30300-193	"	ϕ 0.35 x ϕ 3 x 12 Rec Bar, Pause Bar	2
117	" -192	"	ϕ 0.3 x ϕ 2.8 x 16.7 Cam (1)	1
118	" -195	"	ϕ 0.2 x ϕ 2.5 x 11.8 Cam (2)	1
119	" -196	"	ϕ 0.1 x ϕ 2 x 4.6 Eject Arm	1
120	" -197	"	ϕ 0.15xϕ0.28 x 11.5 REC Safety Lever	1
121	" -198	"	ϕ 0.55 x ϕ 4 x 21.75 Brake Lever	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
122	T30300-199	Spring	ϕ 0.65 x ϕ 4.1 x 19.3 Slide Base	1
123	" -200	"	ϕ 0.2 x ϕ 3 x 17.8 Top Arm (1)	1
124	T30301-103	"	Back Tension	1
125	" -137	"	Thrust	1
126	" -141	"	ϕ 0.8 x ϕ3.8 x 10.5 R/P Head	1
127	" -142	"	ϕ 0.8 x ϕ3.8 x 10.1	1
128	" -140	"	ϕ 0.8 x ϕ3.8 x 7.7 R/P Head	2
129	SPBP1703N	Screw	R/P Head	2
130	LPSP2604Z	"	Solenoid Rubber Stopper	3
131	LPSP2605Z	"	Head Panel, Cam Stopper, Reel Disk Bar Ass'y, Cassette Guide, Review Lever, Stop Arm (2), Timer REC Arm, Solenoid Bracket, Bracket, Motor Bracket, Capstan Motor, Fly-wheel Holder, Counter Bracket, Holder Bracket, Spring Plate, Lamp Holder, Stud	33
132	LPSP3005ZS	"	Motor C. Board	2
133	SDBP2603R	"	Holder Plate	2
134	SHSP2606N	"	R/P Head	2
135	SHSP2012N	"	"	1
136	SSSP2604N	"	Holder	4
137	SSSP3006ZS	"	Counter	2
138	SPSP2605Z	"	FF Arm, REW Arm	2
139	SPSX2010Z	"	E. Head	1
140	SPSX2012Z	"	"	1
141	REE1200	E-ring	Idler Pulley	1
142	REE2000	"	Thrust Base, Brake Lever, Pinch Roller Arm, Take-up Lever, Lock Plate, Stop Arm, Shaft, Safety Arm	10
143	REE2500	"		1
144	REE3000	"	Slide Base	1
145	Q03093-102	Washer	ϕ4.2 x ϕ8 x t0.2 Play Bar & Slide Base	1
146	Q03093-522	"	ϕ2.4 x ϕ5.5 x t0.5	1
147	" -609	"	ϕ2.2 x ϕ6 x t0.2 Take-up Disk, Back Tension	
148	" -610	"	ϕ1.7 x ϕ5 x t0.2 Idler Pulley	2
149	" -621	"	ϕ2.6 x ϕ15 x t0.3 Thrust	1
150	" -827	"	ϕ2.6 x ϕ4.7 x t0.25 Thrust	1

Mechanical Component



Enclosure Assembly and Electrical Parts List (Except Circuit Board Parts)



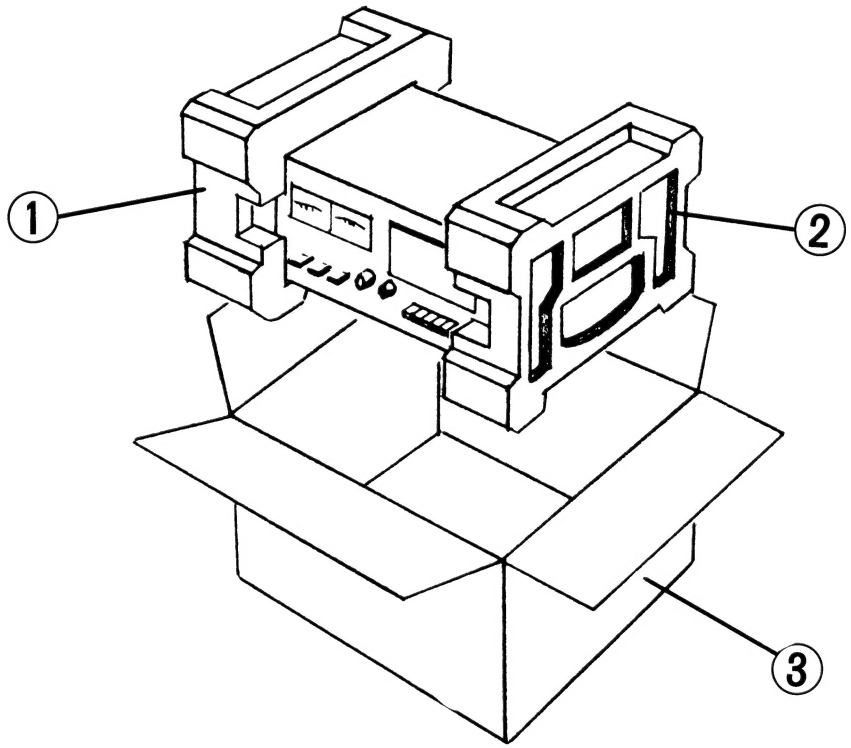
Enclosure Assembly and Electrical Parts List (Except Circuit Board Parts)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	*TFP345489-01	Spring		1
2	*TJM345105-01	Cassette Holder		1
3	*TFP345490-01	Spring		1
4	*TJM345493-01	Stopper		2
5	*TFB345307-01	Holder Bracket (38—43, 90)		1
6	T43909-001	Metal		1
7	*TFH345492-01	Shaft		1
8	*TJK345308-01	Push Button		3
9	*TJK345308-02	"	Red	1
10	*TJK345308-03	"	Green	1
11	*TJK345308-04	"	for Pause	1
12	*T30302-081	Collar		1
13	*TFB345495-01	Shaft Holder		1
14	*TFB345496-01	Shaft Bracket		1
15	TAJ305307-02	Mic & H.P. Jack Ass'y		1
16	TEP267495-0B	Brake Pipe Ass'y		1
17	TEP267490-03	Brake Shaft		1
18	TER267508-02	"O" Ring		1
19	*TGB345497-0A	Brake Arm Ass'y		1
20	*TFB345500-01	Brake Lever		1
21	*TFW345522-01	Spring		1
22	*TFW345511-01	"		1
23	*TGB345501-0A	REC Bracket Ass'y		1
24	*TFH345502-01	Stud		1
25	*TFB345503-01	REC Arm (1)		1
26	TFB345453-01	REC Arm (2)		1
27	TFB345454-01	REC Arm (3)		1
28	T44341-001	Rubber Tire		1
29	*TFW345504-01	Rod		1
30	T47946-001	REC Rod		1
31	*TDM000357-01	Level Meter		2
32	TJN000354-06	Meter Cushion		2
33	TFB345203-01	Rear Bracket	KD-75C/J	1
	" -02	"	KD-75B/E	1
34	QMP1200-183	Power Cord with Plug	KD-75C/J	1
	QMP9017-007BS	"	KD-75B	1
	QMP3900-183	"	KD-75E	1
	QMP7600-244	"	KD-75U	1
35	QHS3876-162BS	Cord Stopper	KD-75B	1
	QHS3876-162	"	KD-75C/E/J/U	1
36	TAW000504-01	Connector	KD-75C/J/U	1
37	TFB345506-01	Switch Lever		1
(38—43,90)	ZCKD75SAY-CBF	Front Panel Ass'y		1 set
38	TJP359201-01	Front Plate		1
39	*TJE345310-01	Finder		1
40	TJE349408-01	Counter Lens		1
41	TJB342206-0B	Push Switch Button Ass'y	for Power Switch	1
42	RDS12000Z	"CS" Ring		1
43	*TJM345519-02	Lever Escutcheon B		3
44	*TJE345202-01	Meter Escutcheon		1
45	TJK344524-0A	Push Knob Ass'y	for Peak Level Switch S9	1
46	*TJK345508-01	Slide Knob		1
(47—53)	ZCKD75SAY-CCA	Cassette Lid Ass'y		1 set
47	*TJM345311-01	Cassette Lid		1
48	*TJP345312-01	Lid Plate		1
49	*TJS345509-01	Double Face		1
50	TJL271485-01	Head Mark		1
51	TJE345320-01	Lid Cover	for Lid cover	1
52	TJA345525-01	Screw	for Lid Cover	2
53	Q03093-502	Washer	"	2
54	TXKP016-3001	Knob Ass'y	PB Volume	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
55	TJK349407-0A	Knob Ass'y	R-ch. Input Level	2
56	TJK349406-0A	"	L-ch. Input Level	2
57	*TJK345512-0A	"	REC EQ	1
58	*TJK345520-01	Lever Knob		3
59	*TJC345108-01	Cover		1
60	E60942-001	Screw		6
61	*TJC345109-01	Bottom Cover		1
62	TJL000342-27	Name Plate	KD-75A	1
	TJL000342-28	"	KD-75B	1
	TJL000342-31	"	KD-75C	1
	TJL000352-05	"	KD-75E	1
	TJL000342-29	"	KD-75J	1
	TJL000342-30	"	KD-75U	1
63	E48729-001	Plastic Rivet		4
64	QHW2115-001	Wire Clamps		1
65	*TFC345102-01	Amp. Chassis		1
66	TJF000355-02	Foot		4
67	*TFB345491-01	Power Switch Bracket		1
68	QSP2111-011BS	Push Switch	KD-75B for Power	1
	QSP1110-222	"	KD-75C/J "	1
	QSP2111-011	"	KD-75E "	1
	QSP2211-001	"	KD-75U "	1
69	QFA72BM-223	M.P. Capacitor	KD-75C/J C19	1
	QFH53AM-223	M.M. Capacitor	KD-75U "	1
70	T47047-001	Condenser Cap	KD-75C/J/U	1
71	TAP330306-02BS	Power Transformer	KD-75B	1
	TAP334301-01	"	KD-75C/J	1
	TAP330306-02	"	KD-75E	1
	TAP360301-01	"	KD-75U	1
72	E46651-001	Wrapping Terminal		1
73	51739-2	Lug		2
74	*TFC345103-03	Front Bracket		1
75	*TFB345306-01	Volume Bracket		1
76	SBSB3006V	Screw	for Circuit Board	12
77	QMC0657-001	Socket Ass'y		1
78	QMC0357-001	Socket Ass'y		1
79	QMC0589-003	DIN Socket Ass'y		1
80	TAJ331301-03	PIN socket Ass'y		1
81	TDS000334-02	Switch Ass'y	Motor SW S6, Pause SW S8, REW SW S2	3
82	T30483-00C	"	Muting SW S7	1
83	*TFB345516-01	Switch Bracket	"	1
84	QSS2220-002	Switch Ass'y	Memory SW S5	1
85	T46392-006	Illumination Shield	for Meter	2
86	T47818-002	Spacer	for Front Plate	3
87	TJN265423-02	Cushtion	for Cover	2
88	TAZ345526	Block Copy Seal	(Parts Location Seal)	1
89	TFB345530-01	Spring Bracket		1
90	T46392-005	Illumination Shield	Meter escutcheon	1
91	QSS2325-006BS	Slide Switch	KD-75B for Voltage Select	1
	QSS2325-006	"	KD-75E/J "	1
101	T30300-152	Spring	PIN Jack Board, REC/PB Socket	1
102	NTB3000S	Nut	REC Arm (1)–(2)	4
103	SBSB2608Z	Tapping Screw	Peak Level Indicator	4
104	SBSB3006Z	"	Mech. Ass'y, REC Bracket, Rear Bracket, Volume Bracket, Front Bracket, Lug, Bottom Cover, SW Bracket, Wrapping Terminal	34
105	SBSB3008Z	"	Meter Escutcheon, Front Panel	7
106	SBSB4010Z	"	Mic Jack	2
107	SDCS3008R	"	Jack Board, REC/PB Socket	4
108	SDBP3006RS	Screw	Cassette Holder, Voltage Selector	6
109	SPSP2006Z	"	Push Switch	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
110	SPSP3016ZS	Screw	Foot	4
111	DPSP4006Z	"	Power Transformer	2
112	LPSP2605Z	"	REC Arm (3), Holder Bracket Spring Bracket	3
113	LPSP2606Z	"	Muting SW, Bracket, SW Bracket	7
114	LPSP3006ZS	"	Push Switch	2
115	Q03093-310	Washer	ϕ5.2 x ϕ10 x 1	4
116	WNS2600N	"	Motor SW. REW SW.	3
117	WSS3000B	"	Foot	4
118	WLS4000	Lock Washer	Stud	1
119	REE2000	"E"-ring	Brake Ass'y	4
120	REE4000	"	REC Arm (2) Holder Shaft	4
121	REE3000	"	REC Arm (1)	1

Packing



Packing Material Parts

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	TKC345111-01	Cushion	Left	1
2	TKC345110-01	"	Right	1
3	TKB345317-05	Case	KD-75A/B	1
	TKB345317-08	"	KD-75C	1
	TKB345317-04	Spacer		1
	QPGA060-06005	Envelope	for Set	1
	AP4056A-036	"	for PIN cord, Power cord	2
	AP4056A-077	"	for Instruction Book	1
	V30859-007	"	for Warranty	1
	TKS000501-01	Seat	for the Set	1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
T30046-00B	PIN Cord	KD-75A/C/J/U	2
CN-201	DIN Cord	KD-75B/E	1
T47796-00B	Head Cleaning Stick		2
AP4056A-024	Envelope	for H. C. Stick	1
T7686EGF	Instruction Book		1
TLJ000476-02	ANRS Seal Ass'y		1
TLJ000477-02	Super ANRS Seal Ass'y		1
T46965-002	DEMO Tape	DT-626	1
TLT000429-01	Caution Card		1
TLT305452-02	"		1
TLJ000443-01BS	Seal	KD-75B	1
BT20029	Warranty Card	KD-76A	1
BT20025	"	KD-75C	1
BT20032	"	KD-75J	1
TLT279401-01	Caution Card	KD-75E	1
TLT052401-01	Warning Label	KD-75A/E	1
TLT052401-01BS	"	KD-75B	1
BT20023	Service Procedure	KD-75J	1
QZL1002-003BS	Warning Label	KD-75B	1
TLT000505-01	UL/CSA Caution Label	KD-75C	1
TLT279402-01	Security S. Label	KD-75E	1
BT20024B	Special Reply Card	KD-75J	1
T46328-003	Caution Label	KD-75B	1
T44362-001	CSA Label	KD-75C	1
T46328-004	Caution Label	KD-75E	1
QZL1001-001	UL Label	KD-75J	1
BT20015	Warranty Card	KD-75U	1
BT20013	Guarantee Certificate	KD-75B/E	1
TLT000503-02	UL/CSA Caution Label	KD-75C/J	1
E7795-01	EP Mark	KD-75U	1
E04056-001	Conti Plug	KD-75U	1

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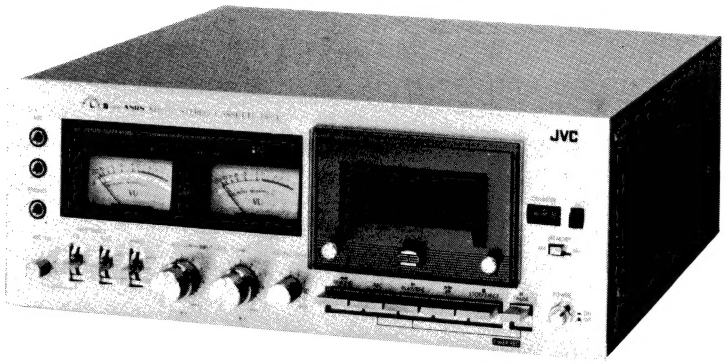
Supplementary
SERVICE MANUAL

MODEL

KD-75A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4156-2
May 1978

This manual is supplementary of KD-75A/B/C/E/J/U service manual (No. 4156) to improve performance and other reasons.

Please add this comparative table to service manual (No. 4156) and give an order to us for the parts concerned to keep them as spare.

KD-75A/B/C/E/J/U (No. 4156)

Page	Line	Original			NEW				Q'ty
		Ref. No.	Parts No.	Parts Name	Ref. No.	Parts No.	Parts Name	Remarks	
		(Main Amp. Circuit Board Parts)							
19	25	CA17, B17	QFM42AJ-682	M. Capacitor	CA17, B17	QFM41HJ-682	M. Capacitor	0.0068 μF 50 V	2
21	13	R15	QRD141K-473	C. Resistor	R15	QRD141K-683	C. Resistor	68 kΩ ¼ W	1
		R16	" -822	"	R16	" -123	"	12 kΩ "	1
	44	X1, 2, 5	2SC828RS	Si. Transistor	X1, 2	2SC828RS	Si. Transistor		2
					X5	2SC828R	"	(Addition)	1
	54	TAZ001331	TAZ001331-02BS	Fuse Holder		TAZ000331-02BS	Fuse Holder	KD-75B	6
			TAZ001331-02	"		TAZ000331-02	"	KD-75A/E	6
23	25	R301	QRD141K-103	C. Resistor	R301	QRD141K-822	C. Resistor	8.2 kΩ ¼ W	1
	33	R149, 249	" -121	"	R149, 249	" -151	"	150 Ω "	2
	45	C103, 203	QEW41CA-476	E. Capacitor	C103, 203	QEB41EM-336	E. Capacitor	33 μF 25 V (Low Leak)	2
	49	C115, 215	QEW41EA-106	"	C115, 215	" -106	"	10 μF "	2
		(Enclosure Assembly and Electrical Parts)							
31	2	2	TJM345105-01	Cassette Holder	2	TJM345105-03	Cassette Holder	#301~	1
	6	6	T43909-001	Metal	6	T43909-002	Metal	#301~ (for Fixing an arm)	1
	35	34	QMP1200-183	Power Cord with Plug	34	QMP1200-244	Power Cord with Plug	KD-75C/J	1
	56	48	TJP345312-01	Lid Plate	48	TJP345319-01	Lid Plate		1
32	14	63	E48729-001	Plastic Rivet	63	E48729-002	Plastic Rivet	for Name Plate	2
	15	64	QHW2115-001	Wire Clamp				(Cancel)	
	16	65	TFC345102-01	Amp. Chassis	65	TFC345102-02	Amp. Chassis		1
	22	68	QSP2211-001	Push Switch		QSP1110-221	Push Switch	KD-75U for Power	1
	51				91	QSS2325-004	Slide Switch	KD-75U (Addition)	1
	58	107	SDCS3008R	Tapping Screw	107	SDSC3008R	Tapping Screw	Jack Board, REC/PB Socket	4
33	1	110	SPSP3016ZS	Screw	110	SPSP3014ZS	Screw	for Foot	4
						WNS5000N	Washer	for Operation Button	2
						VKZ4001-010	Wire Clamp	#301~	1
						VKL4246-001	Bracket	#301~	1
		(Accessories)							
	21		TLT279402-01	Security S. Label				(Cancel)	
	27		BT20015	Warranty Card		BT20032	Warranty Card	KD-75U	1
	31		E04056-001	Conti. Plug		V04062-001	Siemens Plug	KD-75U	1
						BT20023	Service Procedure	KD-75U for PX (Addition)	1
						BT20024B	Special Reply Card	KD-75U for PX (Addition)	1

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